THOMSON MULTI MEDIA

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

X1000

WARNING : Before servicing this chassis please read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf iesem Chassis, die Sicherheitsvorschriffen lesen.
ATTENZIONE : Prima di intervenire sullo chassis, leggere le norme di sicurezza.
IMPORTANTE : Antes de cualquier intervención, leer las recomendaciones de seguridad.

Do not disconnect modules when they are energized!
Repairs on powersupply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu'ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur(Switch Mode)qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfermen!
Servicearbeiten am Netzteil nur nuter verwendung eines Regeltrenntrafos durchfuhren.

Non scollegare le piastre quando sono alimentate!
Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energia deben ser ejecutadas solamente con un transformador de separación.

⚠ Indicates critical safety components, and identical components should be used for repiacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠)par des composants non homologués selon la
Norme CEI 65entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile(mit dem Symbol ⚠ gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione del componenti di sicurezza(evidenziati con il segno ⚠)con compinenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASIRE,EMTCONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN
CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER
On UHF, input level:1mV, bartest pattern:
-PAL, G standard, 100% white.

Via the scart socket, input level:1Vpp, bar test pattern:

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected: PR01.

DC voltages measured between the point and earth using a digital volmeter.

RECEPPTEUR:
En UHF, niveau d'entrée 1mV mire de barres
-SECAM, Norme L, blanc 100%

Par la prise Péritélévision, niveau d'entrée 1Vcc, mire de barres.

Couleur, contraste, lumiere à mi-course, son minimum.
Programme affecté PR01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER:
Bel UHF Eingangspegel 1mV, Farbbalken:
-PAL, Norm G, D/K, Weiss 100%

Über die Scarbuchse : Eingangspegel 1Vss, Farbbalken:

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR01.
Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE:
In UHF, livello d'entrata 1mV, monoscopio con barre:
-PAL, nomaG, bianco 100%

Via SCART, livello d'entrata 1Vpp, monoscopio con barre:

Colore, Contrasto, Luminositá a meta corsa, Suono minimo.
Programma designato PR01.

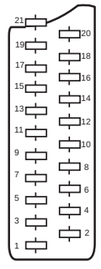
Tensioni continue rilevate rispelto alla massa con un voltametro digitale

RECEPTOR:
En UHF, nivel de entrada 1mV, mira de barras:
-PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1Vpp mira de barras.

Color, Contraste, luz a mitad de carrera, Sonido minimo.
Programa afectado PR01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.



	ENGLISH	FRANÇAIS	DEUTSCH	ITALIAN	ESPAÑOL
1 ⊖→	AUDIO"R"	AUDIO"D"	AUDIO"R"	AUDIO"D"	AUDIO"D"
2 →⊖	AUDIO"R"	AUDIO"D"	AUDIO"R"	AUDIO"D"	AUDIO"D"
3 ⊖→	AUDIO"L"	AUDIO"G"	AUDIO"L"	AUDIO"S"	AUDIO"I"
4 ⊥	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5 ⊥	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6 →⊖	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7 →⊖	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8 →⊖	SLOW SWITCH	COMMUT LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA""	COMMUTAZIONE LENTA"
9 ⊥	"GREEN"	"VERT"	"GRUN"	"VERDE"	VERDE"
10 **NC**					
11 →⊖	"GREEN"	"VERT"	"GRUN"	"VERDE"	"VERDE"
12 **NC**					
13 ⊥	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14 **NC**					
15 →⊖	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16 →⊖	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE LENTA"	COMMUTAZIONE LENTA"
17 ⊥	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18 ⊥	FAST SWITCH	COMMUT.RAPIDE	AUSTASTUNG	"COMMUTAZIONE LENTA"	"COMMUTAZIONE LENTA"
19 ⊖→	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20 →⊖	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21 ⊖→	PLUG SCREENBOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METAL-LICO DELLAPRESA	BLINDAJEDEL ENCHUFE

→⊖ :INPUT - ENRTÈE-EINGANG-ENTRATA-ENTRADA • ⊖→ :OUTPUT-SORTIE-AUSGANG-USCITA-SALIDA • ⊥ :EARTH-MASSE-MASSE-MASSA-MASA

TECHNICAL DATA AND COMPOSITION OF VIDEO RECORDERS
CARACTERISTIQUES TECHNIQUES ET COMPOSION DES MAGNETOSCOPES
TECHNISCHE DATEN UND ZUSAMMENSETZUNG DER VIDEORECORDERS
CARATTERISTICHE TECNICHE DEI VIDEOREGISTRATORI
CARACTÉRISTICAS TECNICAS Y COMPOSICIÓN DE LOS VÍDEOS

POWER REQUIREMENT : Alimentation : Netzeil: Alimentazione: Alimentacion:	200-240V±10% 50/60Hz	4Heads Helical Scan system: 4têtes vidéo 4Video-Kopfe 4Testing Video 4Cabezas video:	Consumption Consommation: Leistungsaufnahme Consumo: Consumo:	17W 4.5W(ECO)
Programming: Programmation: Timer: Programmmazione: Programacion:	SHOWVIEW	2Heads Helical Scan system: 2têtes video: 2Video-köpfe: 2Testine video 2Cabezas video:	Sound: Son: Ton: Suono: Sonido:	Stereo
Tape speed: Vitesse de défilement: Bandgeschwindigkeit: Velocitá del nastro: Velocidad de la cinta:	SP SP/LP SP/LP/SLP	Tape format: VHS Format video Video-system Formato video: Formato video:	Power save: Sécurité secteur: Gangreserve: Riserva alimentazione: Seguridad red:	1min
SP = 23.39mm/sec		LP = 11.70 mm/sec	SLP : 33.35mm/sec.(only NTSC PB)	

GB For service information on the deck mechanism see separate publication "X1000 SERIES MECHANICAL ADJUSTMENTS"

F Pour toute intervention ou réglage sur la partie mécanique, se reporeter au FASCICULE MECANIQUE X1000 .

D Informationen über mechanische Einstellungen entnehmen Sie bitte dem Handbuch "MECHANISCHE EINSTELLUNGEN X1000".

I Ulteriori informazioni sulla meccanica si possono trovare nelle seguenti pubblicazioni: "SERIE X1000 REGOLAZIONI MECCANICHE".

E Para información de servicio técnico sobre el mecanismo de la platina, consulte la documentación separada "AJUSTES MECANICOS SERIES X1000".

SCHEMATIC DIAGRAMS & PCBs

Reference	Interconnect Wiring Diagram	Power Circuit Diagram	Syscon Circuit Diagram	A/V Circuit Diagram	Secam Color Circuit Diagram	Hi-Fi & SW Circuit Diagram	PIF Circuit Diagram	MAIN PCB
THOMSON								
VTH6250G	9-10	11-12	17-18	23-24	-	33-34	37-38	41-44
VTH6250F	9-10	11-12	17-18	23-24	29-30	33-34	37-38	41-44

INFORMATION - INFORMATIONS - HINWEISE -
INFORMAZIONI - INFORMACIONES

GB The table below shows how the Commercial Reference corresponds to X1000 series Chassis Reference number, it also gives additionnal information that can be used to identfy the major components according to chassis type.

F Le tableau ci-dessous donne la correspondance entre les références commerciales et les types de chassis de la série X1000, de plus if apporte un complement d'informations permettant d'identifier les composants montes suivant les chassis

D Die untenstehende Tabelle zeigt die Zuordnung der Gerätebezeichnungen und der Chassisvarianten der Reihe X1000 an.

I La tabella sottostante indica la corrispondenza tra i fiferimenti commerciall e i tipi di telaio della serie X1000. Inoltre consente di identificare i principali componenti in base al tipo di telaio.

E El cuadro sigulente presenta la correspondencia ente las referencias comerciales y los tipos de chasis de la serie X1000, además ofrece una informacion complementaria que permite identificar los componentes montados según el tipo chasis.

Com. Ref.	Chassis	Mechadeck	Tuner	ECO
VTH6250G	X1000	DRP-8600HVP	SSTMI-GKIQ1 LGTMI-GKIQ1 ALTMI-GKIQ1	YES
VTH6250F	X1000	DRS-8600HVP	SSTBI-SLQ1 LGTBI-SLQ2	YES

GB

1.MAINTENANCE INSTRUCTIONS

For service information on the deck mechanism see separate publication <X1000 SERIES MECHANICAL ADJUSTMENTS>.

1.1 Resetting the video recorder

a) Disconnect the video recorder from the mains supply.
b) Hold down the <+> and <-> keys on the front panel and reconnect the video recorder to the mains supply. Release the <+> and <-> keys.
c) Resetting the video recorder also can be done in the service mode.

1.2 Service mode adjustments

Accessing the service mode

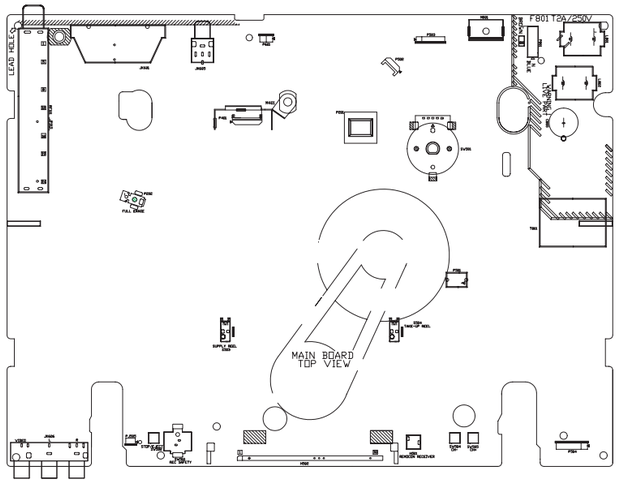
a) Press <menu> key on the remote control, then the summary menu is displayed on screen.
b) Sequential pressing the numbers as <3> ,<6>, and <9> will display the 5 items of service mode.
c) Each service mode can be accessed by pressing the digit key corresponding to the number on the left side. <0> key on the remote control will release the service mode.

1.3 Head switching point

a) Insert a protected test cassette into the video recorder. The VCR will automatically enter the play mode.
b) Next enter the service mode as described above.
c) Press <5> key on the remote control, then the video control data is displayed.
d) Press <Rec> key either on remote control or on the front panel.
<0> key on the remote control will release the video control data mode.

2. Electrical adjustments - Réglages étectriques - Elektrische Einstellungen- Regolazioni elettriche - Ajustes eléctricos

2.1 Test points and adjustment overview- Emplacement des points test el des réglages - Testpunkte und Abgieich- Überslcht - Punti test e panoramica generale delle regolazioni - Punto de prueba y emplazamientos de los ajustes.



2.2 On screen display (Main board)-OSD : Affichages sur l'écran (platine principale) - OSD : Hauptleiterplatte-
OSD : Visualizzazione su Schermo - OSD : Visualización en la pantalla

N	Item	Mode & Signal	Test equipment	Test point	Description
2.2.1	OSD chroma oscillator		Frequency counter	R542	Check for 17.73447MHz ±443HZ

2.3 Measurements Servo Section(Main Board) - Vérifications sur les circuits d'asservissements- Messungen Servotell - Controlli parte Servo - Verificationes para parte Servo.

N•	Item	Mode & Signal	Test equipment	Test point	Adjustment point	Description
2.3.1	Oscillator frequency		Frequency conuter	IC501 pin38	None	Confirm f =16.0MHz±480Hz
2.3.2	Drum FF(Flip Flop)	PB/REC	Oscilloscope	IC501 pin 18	None	Check for 40ms±10μs
2.3.3	Capstan FG frequency	PB/REC(SP)	Frequency counter	IC501 pin 87	None	Check for f = 757Hz ±10Hz
2.3.4	Head switching	PB	Dual trace Oscilloscope Trigger ext. P503/4 (Drum FF)	Scart JK601 pin19	by software setup	1.Insert a protected test cassette into the video recorder. 2.The VCR will automatically enter the play mode. 3.Next enter the service mode. 4.Press <5>key on the remote control. 5.The video control data is displayed. 6.Press<Rec>key either on remote control or on the front panel. 7.<0> key on the remote control will release the wideo control data mode.

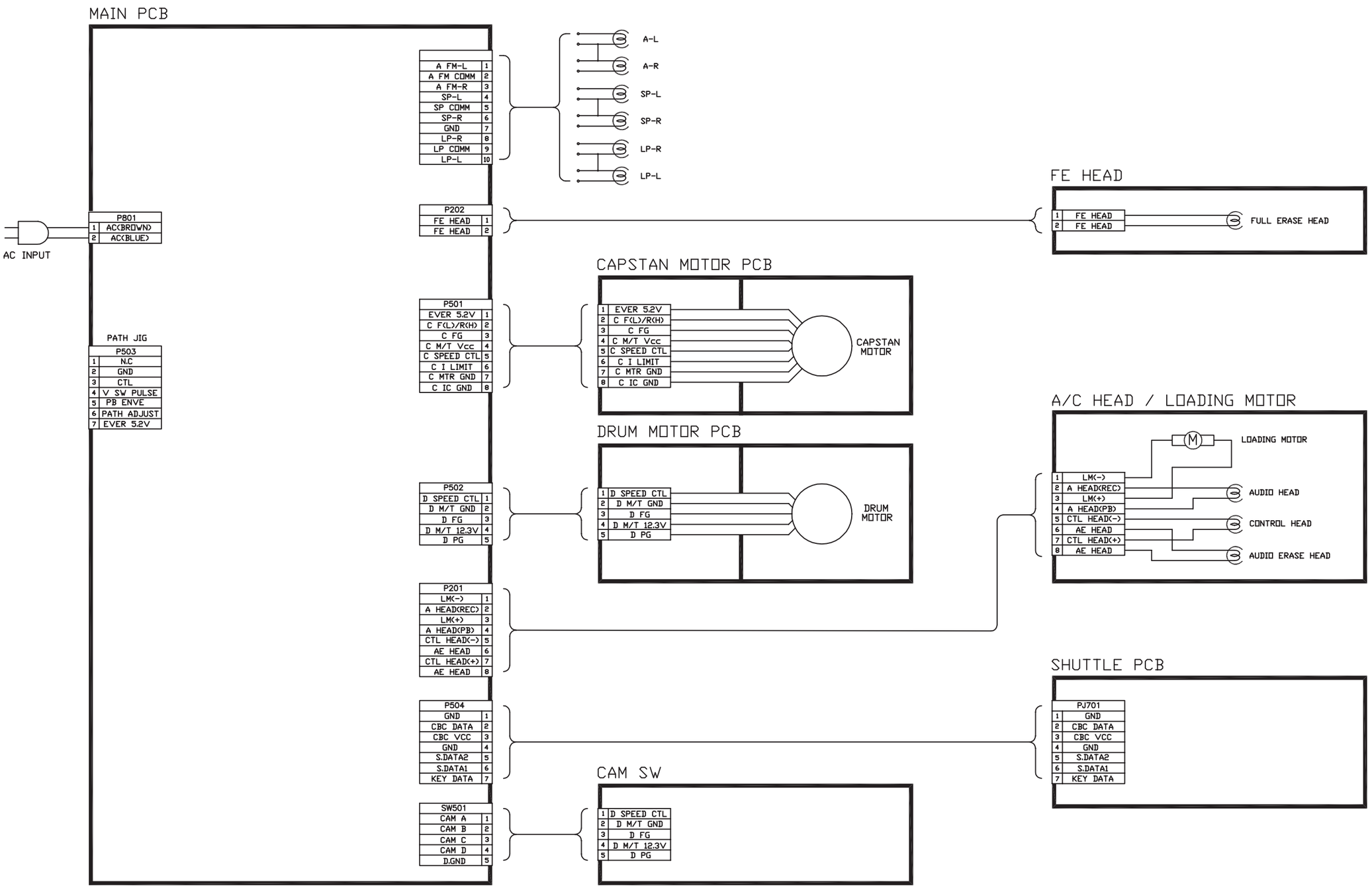
2.4 Video signal processing - Traltement video - video Signalteil - Elaborazione segnale video- Tratamiento video

N•	Item	Mode & Signal	Test equipment	Test point	Adjustment point	Description
2.4.1	CVBS EE level	Select AV1 REC PAL PAL grey scale 1Vpp AV1 pin20	Oscilloscope	AV1 pin19	None	Check for VBS= 1Vpp±0.1Vpp BURST = 300mVpp±70mVpp
2.4.2	CVBS EE level	REC SECAM Colour bar 1Vpp AV 1 pin20	Oscilloscope	AV1 pin19	None	MAGENTA BAR=210MvPP±20Vpp

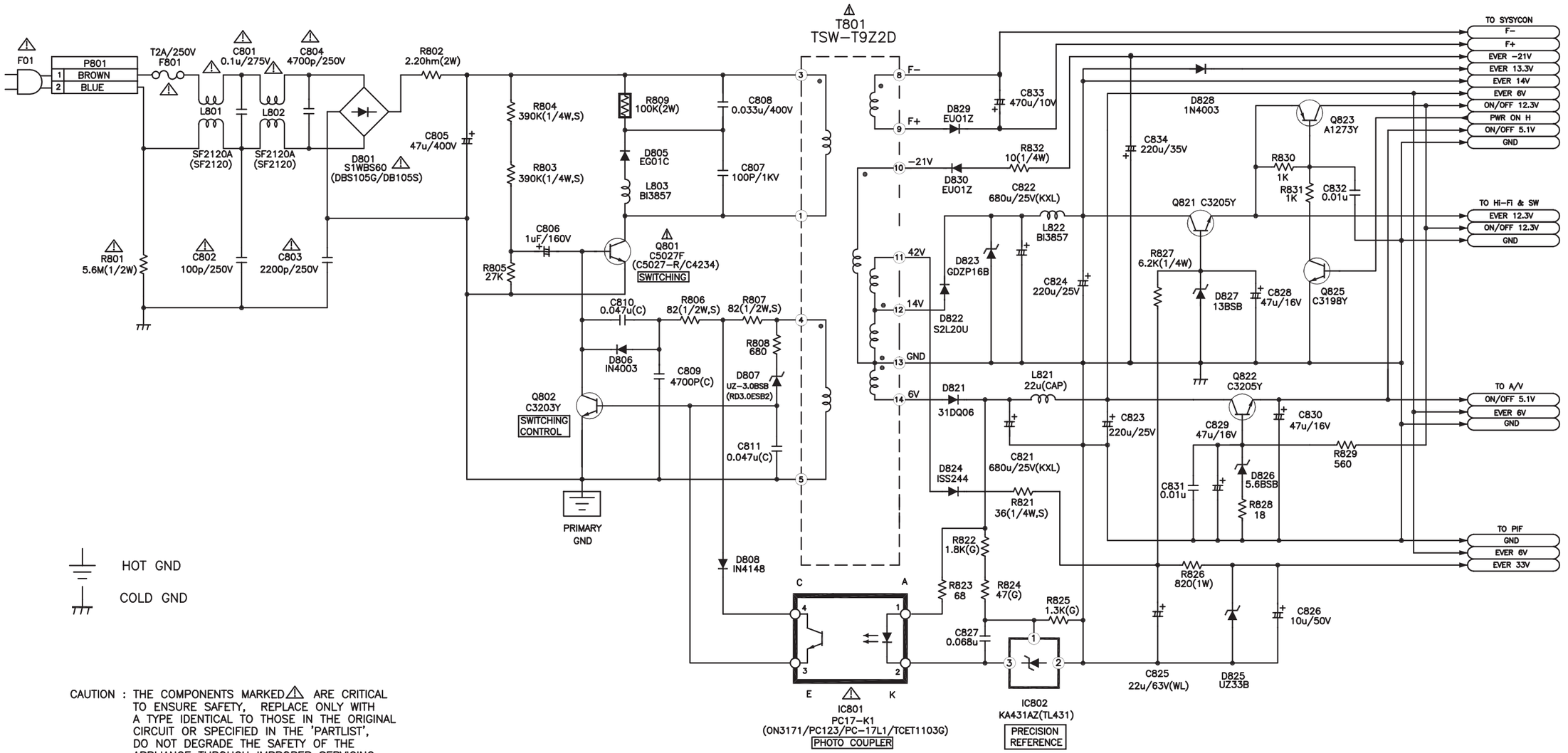
2.5 Audio signal processing - traltement audio - Audio Signalverarbeitung - Elaborazione segnale audio- Procesamiento audio

N•	Item	Mode & Signal	Test equipment	Test point	Adjustment point	Description
2.5.1	Bias oscilltor trequency &level	REC (Without signal)	Oscilloscope	P202 pin1	None	Check for 70KHz±5KHz 50Vpp±5Vpp

INTERCONNECT WIRING DIAGRAM



POWER CIRCUIT DIAGRAM



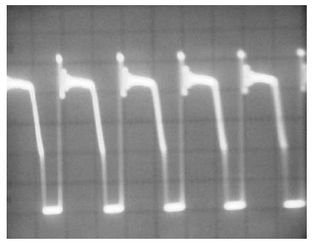
HOT GND

COLD GND

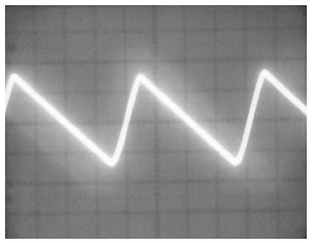
CAUTION : THE COMPONENTS MARKED⚠ ARE CRITICAL TO ENSURE SAFETY, REPLACE ONLY WITH A TYPE IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT OR SPECIFIED IN THE 'PARTLIST', DO NOT DEGRADE THE SAFETY OF THE APPLIANCE THROUGH IMPROPER SERVICING.

POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
IC802	1	2.48	2.48	2.48
	2	0	0	0
	3	4.75	4.75	4.75
IC803	1	5.81	5.81	5.81
	2	4.75	4.75	4.75
	3	0.24	0.24	0.24
	4	2.6	2.6	2.6

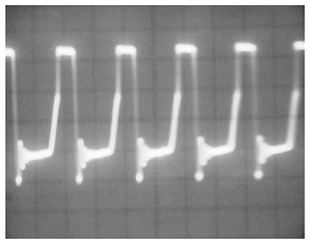
POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
Q801	E	0	0	0
	B	-0.09	-0.09	-0.09
	C	275	275	275
Q802	E	0	0	0
	B	0.25	0.25	0.25
	C	-0.09	-0.09	-0.09
Q821	E	12.3	12.3	12.3
	B	13	13	13
	C	14	14	14
Q822	E	5.1	5.1	5.1
	B	5.77	5.77	5.77
	C	5.88	5.88	5.88
Q823	E	12.3	12.3	12.3
	B	11.7	11.7	11.7
	C	12.3	12.3	12.3
Q825	E	0	0	0
	B	0.72	0.72	0.72
	C	0.01	0.01	0.01



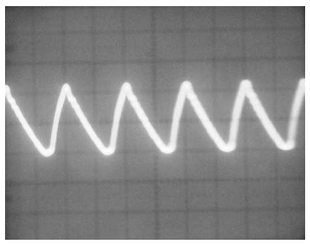
①T801 PIN 1 X : 0.1 kV DIV
Y : 5uS DIV



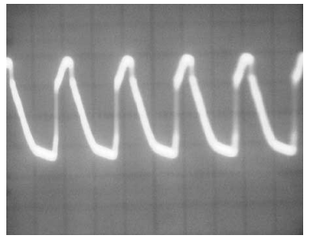
②T801 PIN 3 X : 2V DIV
Y : 2mS DIV



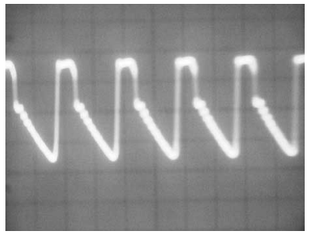
③T801 PIN 4 X : 5V DIV
Y : 5uS DIV



④IC801 PIN 3 X : 0.5V DIV
Y : 5uS DIV

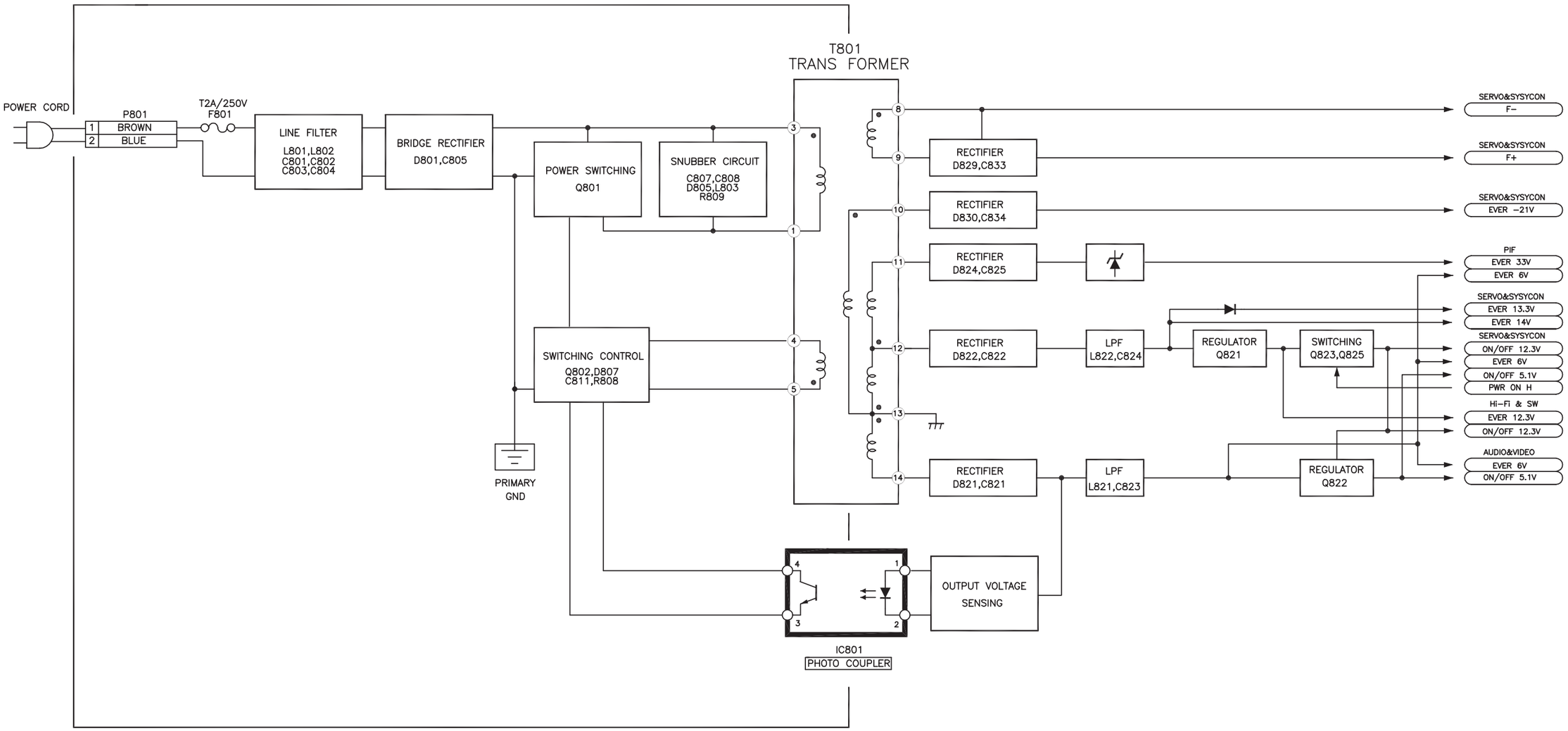


⑤IC801 PIN 4 X : 2V DIV
Y : 5uS DIV

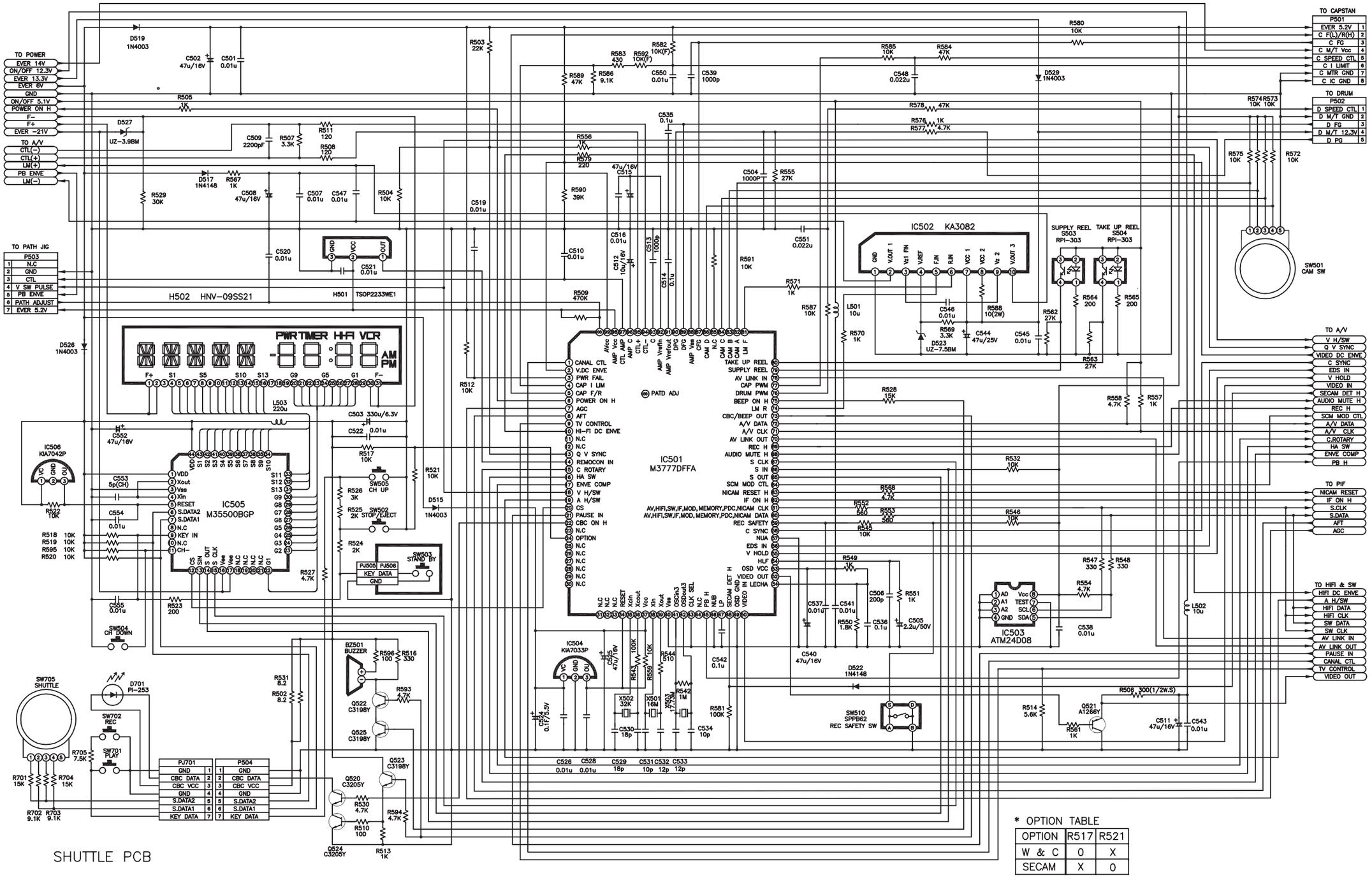


⑥Q801 base X : 0.5V DIV
Y : 5uS DIV

POWER BLOCK DIAGRAM



SYSCON CIRCUIT DIAGRAM



* OPTION TABLE

OPTION	R517	R521
W & C	0	X
SECAM	X	0

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC501	1	0	0	0
	2	2.77	2.17	1.23
	3	5.18	5.2	5.15
	4	1.59	1.6	1.58
	5	1.59	0	0
	6	5.12	5	4.95
	7	3.87	0	3.86
	8	4.61	0	4.58
	9	0	3.7	0
	10	0.19	2.2	0.2
	11	0	0	0
	12	0	0	1.6
	13	5.12	0	5.11
	14	5.17	5.18	5.13
	15	2.58	2.59	2.56
	16	5.15	5.18	5.13
	17	0	4.03	1.27
	18	2.59	2.6	2.57
	19	2.58	2.6	2.57
	20	0.89	0.9	0.88
	21	1.78	1.68	1.57
	22	0	0	0
	23	0	0	0
	24	0	0	0
	25	5.17	5.2	5.15
	26	0	0	0
	27	0	0	0
	28	0	0	0
	29	0	0	0
	30	0	0	0
	31	0	0	0
	32	0	0	0
	33	0	0	0
	34	5.2	5.2	5.18
	35	1.7	1.43	1.34
	36	1.52	1.5	1.5
	37	5.2	5.23	5.18
	38	2.08	2.17	2.17
	39	2.22	2.25	2.25
	40	0	0	0
	41	2.36	2.36	2.33
	42	2.3	2.37	2.34
	43	0	0	0
	44	2.5	1.66	1.58
	45	0	5.2	0
	46	0	0	0
	47	1.77	1.77	1.77
	48	0.2	0.14	0.08
	49	0	0	0
	50	0.9	1.86	0.91
	51	3.3	3.25	3.24
	52	2.7	1.87	2.61
	53	5.08	5.08	5.07
	54	1.99	1.99	1.98
	55	0.89	1.87	0.91
	56	0	0	0
	57	0	0	0
	58	0.39	0.35	0.39
	59	0	0	0
	60	4.3	4.4	4.33
	61	4.5	4.5	0

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC501	62	5.14	0	0
	63	5.14	0	5
	64	2.57	2.56	5.12
	65	5	5.04	0
	66	5.15	5.17	5.12
	67	5.04	5.08	5.12
	68	5.12	0	0
	69	0	0	0
	70	0	0	0
	71	4.95	4.98	4.99
	72	4.95	4.97	0.26
	73	0	0	0
	74	0	0	0
	75	0	0	0
	76	2.44	2.46	2.17
	77	0	2.73	0
	78	5.04	5.05	0
	79	4.94	5	0
	80	0	0	0
	81	0	0	0
	82	0	0	0
	83	5.18	5.2	0
	84	5.18	5.2	0
	85	0	0	0
	86	0	0	0
	87	0.84	2.52	0
	88	0	0	0
	89	1.98	1.98	0
	90	0.52	0.52	0
	91	2.59	2.6	0
	92	2.59	2.6	0
	93	0.53	0.47	0
	94	2.57	2.58	0
	95	2.57	2.59	0
	96	2.6	2.61	0
	97	2.6	2.6	0
	98	5.18	5.2	0
	99	5.25	5.27	0
	100	4.95	4.96	0

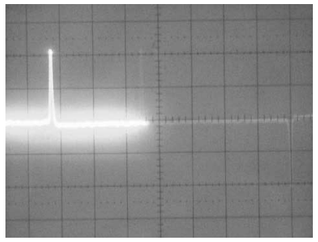
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC502	1	0	0	0
	2	0.46	0.46	0.46
	3	0.82	0.82	0.82
	4	6.68	6.68	6.68
	5	0	0	0
	6	0	0	0
	7	12.5	12.5	12.5
	8	12.5	12.5	12.5
	9	0.85	0.85	0.85
	10	0.46	0.46	0.46

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC503	1	0	0	0
	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	4.6	4.6	4.6
	6	4.7	4.7	4.7
	7	0	0	0
	8	5	5	5

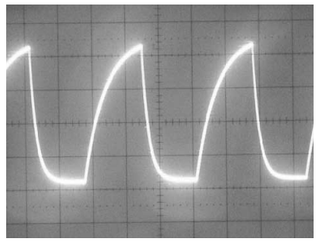
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC504	1	5.2	5.2	5.2
	2	0	0	0
	3	5.19	5.19	5.195

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC505	1	5.24	5.24	5.24
	2	2.44	2.44	2.44
	3	0	0	0
	4	2.44	2.44	2.44
	5	5.24	5.24	5.24
	6	5.24	5.24	5.24
	7	5.24	5.24	5.24
	8	1.91	1.91	1.91
	9	5.24	5.24	5.24
	10	1.88	1.88	1.88
	11	5.24	5.24	5.24
	12	0	0	0
	13	5	5	5
	14	5.15	5.15	5.15
	15	5.04	5.04	5.04
	16	-22.14	-22.14	-22.14
	17	-22.14	-22.14	-22.14
	18	-22	-22	-22
	19	-22	-22	-22
	20	-22	-22	-22
	21	-22	-22	-22
	22	-19.15	-19.15	-19.15
	23	-19.13	-19.13	-19.13
	24	-19.13	-19.13	-19.13
	25	-19.13	-19.13	-19.13
	26	-19.13	-19.13	-19.13
	27	-19.13	-19.13	-19.13
	28	-19.13	-19.13	-19.13
	29	-19.14	-19.14	-19.14
	30	-19.14	-19.14	-19.14
	31	-19.06	-19.06	-19.06
	32	-19.06	-19.06	-19.06
	33	-21.98	-21.98	-21.98
	34	-21.99	-21.99	-21.99
	35	-13.18	-13.18	-13.18
	36	0	0	0
	37	0	0	0
	38	-13.25	-13.25	-13.25
	39	-16.18	-16.18	-16.18
	40	-16.16	-16.16	-16.16
	41	-16.18	-16.18	-16.18
	42	-16.19	-16.19	-16.19
	43	0	0	0
	44	0	0	0
IC506	1	5.24	5.24	5.24
	2	0	0	0
	3	5.24	5.24	5.24

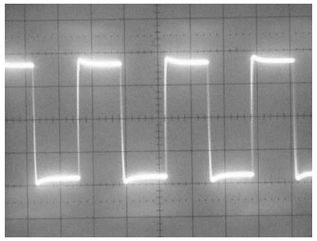
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
Q520	E	0	0	0
	B	0.35	0.26	0.5
	C	2.34	2.25	2.2
Q521	E	2.83	3.4	2.83
	B	2.14	2.14	2.13
	C	0	0	0
Q522	E	0	0	0
	B	0	0	0
	C	5.35	5.35	5.35
Q523	E	0	0	0
	B	0	0	0
	C	5.24	5.24	5.24
Q524	E	0	0	0
	B	0	0	0
	C	2.34	2.34	2.34
Q525	E	0	0	0
	B	0	0	0
	C	2.34	2.34	2.34



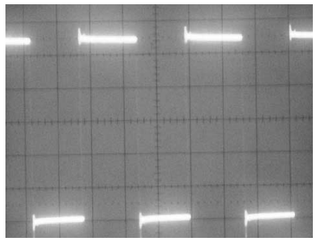
①IC501 PIN97 X : 1V DIV
CTL AMP OUT Y : 5uS DIV



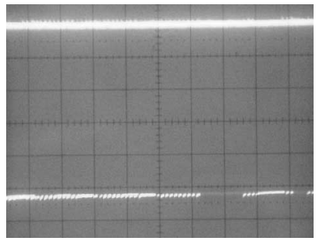
②IC501 PIN89 X : 1V DIV
DRUM FG Y : 0.5mS DIV



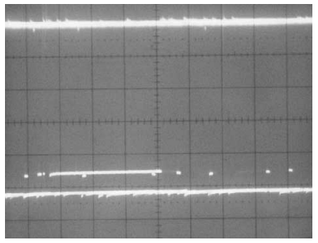
③IC501 PIN87 X : 1V DIV
CAPSTAN FG Y : 0.5mS DIV



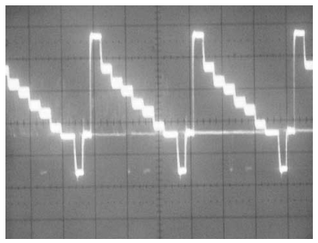
④IC501 PIN76 X : 1V DIV
CAPSTAN PWM Y : 5uS DIV



⑤IC501 PIN61 X : 1V DIV
SERIAL CLK Y : 0.1mS DIV

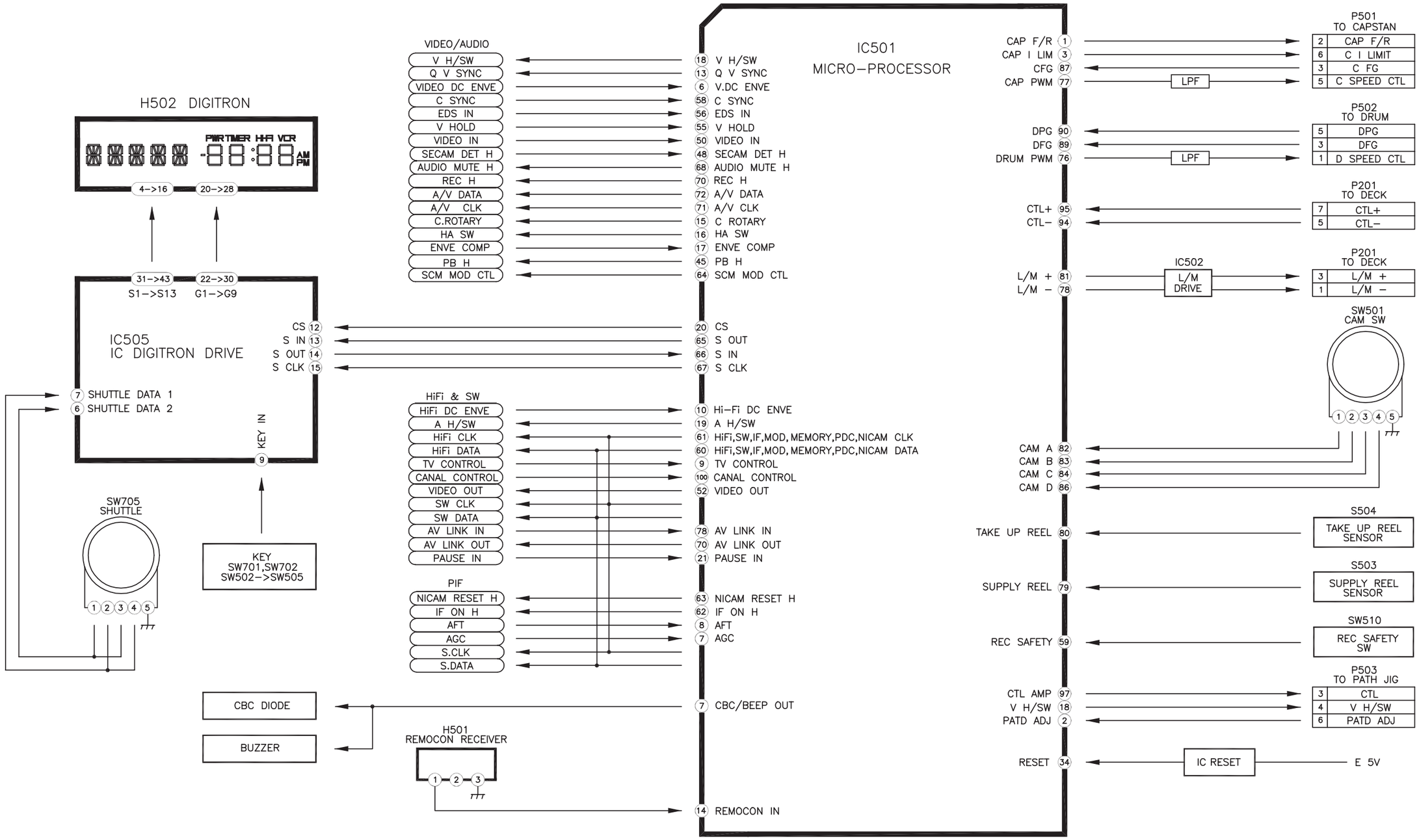


⑥IC501 PIN60 X : 1V DIV
SERIAL DATA Y : 0.1mS DIV

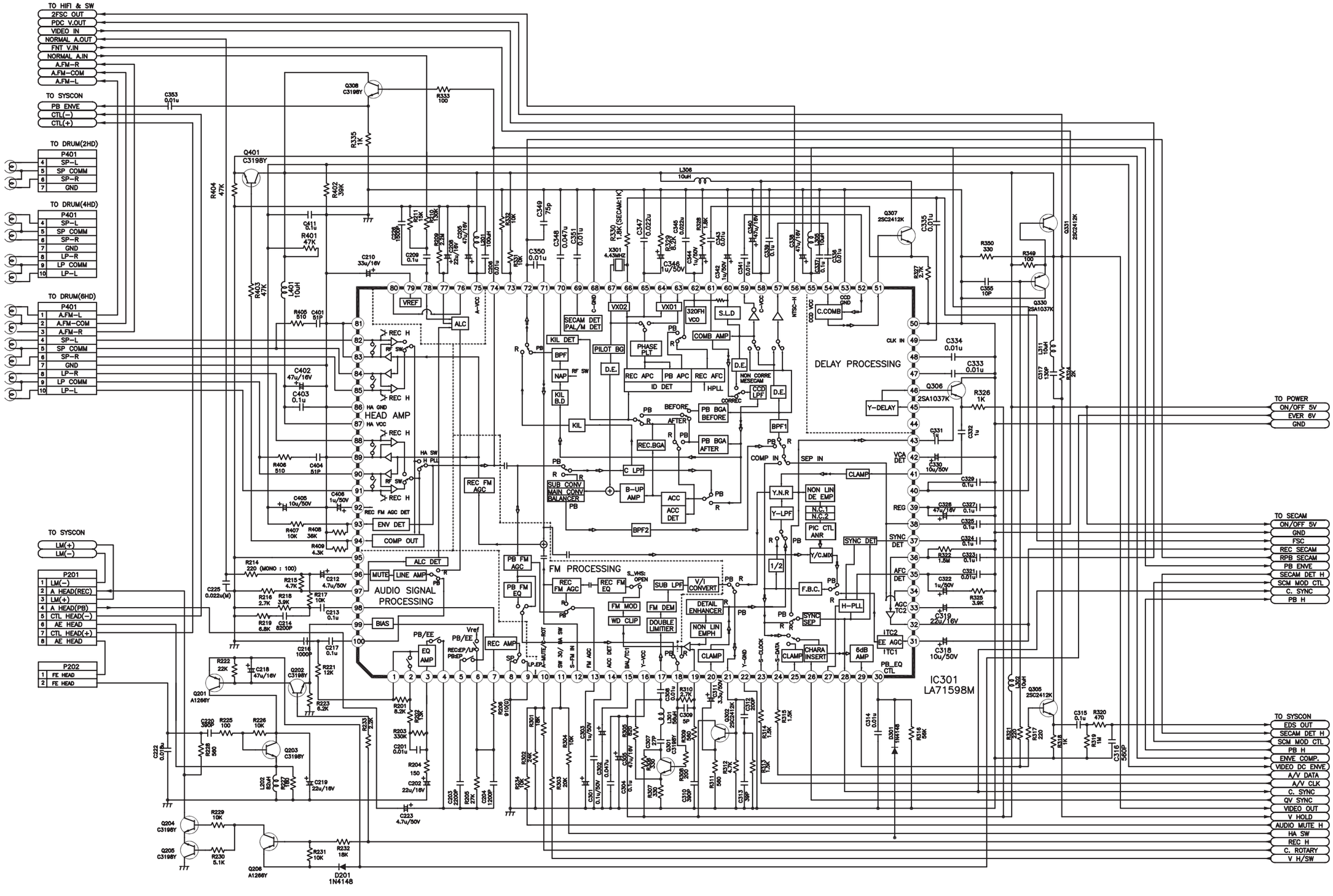


⑦IC501 PIN56 X : 0.5V DIV
EDS IN Y : 20uS DIV

SERVO & SYSCON BLOCK DIAGRAM



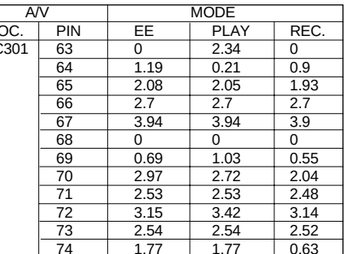
A/V CIRCUIT DIAGRAM



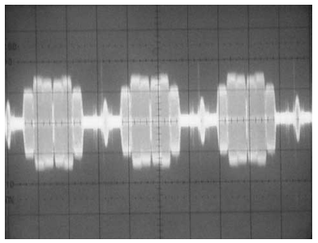
A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
IC301	1	2.48	2.48	2.48
	2	2.48	2.48	2.48
	3	2.5	2.5	2.5
	4	2.5	2.5	2.38
	5	0.43	0.83	1.03
	6	2.51	2.51	2.36
	7	2.51	2.51	2.36
	8	0	0	0
	9	0	0	0
	10	4.18	0.88	0.86
	11	3.42	3.42	3.4
	12	2.63	5	2.62
	13	1.39	1.46	1.53
	14	1.38	1.21	1.35
	15	2.32	2.36	2.32
	16	5	5	5
	17	0.5	0.5	0.016
	18	2.33	1.98	2.33
	19	2.33	1.7	2.32
	20	2.94	3.07	2.93
	21	2.19	2.37	2.22
	22	0	0	0
	23	5	5	5
	24	4.96	0.14	5
	25	2.18	2.67	2.4
	26	5	0.03	5
	27	0.33	0.33	0.33
	28	0.6	0.02	0.6
	29	0.78	3	0.78
	30	1.05	1.05	4.57
	31	2.96	2.98	2.95
	32	2.44	2.2	2.44
	33	1.58	1.45	0
	34	2.44	3.38	2.33
	35	3.4	3.3	3.4
	36	2.42	1.79	2.4
	37	0.11	4.72	0.11
	38	1.8	1.87	1.79
	39	4.1	4.1	4.1
	40	5	5.09	5
	41	2.92	2.97	2.9
	42	2.84	3.14	2.8
	43	2.68	2.04	2.7
	44	0.08	4.3	0.1
	45	2.4	2.46	0
	46	1.5	1.55	1.49
	47	9.36	9.26	9.32
	48	1.97	1.99	1.98
	49	0.89	1.69	0.88
	50	0	0	0
	51	1.86	1.86	1.85
	52	2.7	2.7	2.7
	53	0	0	0
	54	2.7	2.7	2.7
	55	5	5	5
	56	0.57	0.57	0.57
	57	3.43	3.43	3.43
	58	0	5.07	5
	59	3.45	3.36	3.36
	60	4.3	3.32	4.1
	61	3.42	3.42	3.43
	62	4.03	3.33	4.03

A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
IC301	63	0	2.34	0
	64	1.19	0.21	0.9
	65	2.08	2.05	1.93
	66	2.7	2.7	2.7
	67	3.94	3.94	3.9
	68	0	0	0
	69	0.69	1.03	0.55
	70	2.97	2.72	2.04
	71	2.53	2.53	2.48
	72	3.15	3.42	3.14
	73	2.54	2.54	2.52
	74	1.77	1.77	0.63
	75	5	5	5
	76	2.47	2.45	2.15
	77	0	0	0.4
	78	2.47	2.45	2.1
	79	2.5	2.5	2.5
	80	2.5	2.44	2.16
	81	0	0	0
	82	2	2	4.2
	83	0	0	0
	84	1.99	2	4.2
	85	1.99	2	4.2
	86	0	0	0
	87	5	5	5
	88	0.036	2	0.03
	89	0	0	0
	90	0.03	2	0.03
	91	0.03	2	0.03
	92	0.4	0.33	1.5
	93	0.79	2.08	0.62
	94	0	4.14	0.91
	95	0	0	0
	96	2.4	2.38	2.38
	97	0	0	0
	98	2.47	2.47	2.45
	99	0.81	0.81	4.4
	100	2.48	2.48	3.7

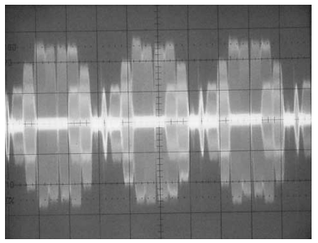
A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
Q201	E	6	6	6
	B	5.89	5.92	5.05
	C	0.37	0.35	3.85
Q202	E	0.81	0.81	4.4
	B	0	0	5.04
	C	5.88	5.91	5.88
Q203	E	0	0	0.09
	B	0.37	0.35	-2.4
	C	0.37	0.33	3.8
Q204	E	0	0	-13.3
	B	0.68	0.69	-19.5
	C	0	0	-2.1
Q205	E	0	0	-13.3
	B	0.7	0.7	-19.1
	C	0	0	0
Q206	E	5.26	5.26	5.26
	B	4.62	4.65	-0.02
	C	5.23	5.26	-19.28
Q301	E	1.64	1.29	1.63
	B	2.32	1.97	2.32
	C	0	0	0
Q302	E	1.55	1.58	1.55
	B	2.2	4	2.2
	C	5	5	5
Q305	E	0.2	2.1	0.2
	B	0.78	0.78	0.78
	C	5	5	5
Q306	E	2.14	2.79	2.14
	B	1.48	1.49	1.49
	C	0	0	0
Q307	E	1.23	1.22	1.23
	B	0.58	0.57	0
	C	5	5	5
Q308	E	0	0	0
	B	1.8	1.8	0.13
	C	5	5	5
Q309	E	1.14	1.14	0
	B	1.75	1.75	0.13
	C	0	0	0
Q330	E	1.5	1.5	1.5
	B	0.81	2.6	0.81
	C	0	0	0
Q331	E	0.87	0.87	0.87
	B	1.51	3.2	1.51
	C	5	5	5
Q401	E	-0.05	1.72	0.45
	B	0	0	0
	C	5	5	5



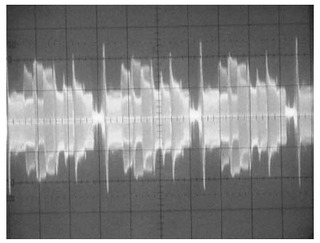
①IC301 PIN12 X : 0.1V DIV
RECY-FM Y : 10uS DIV



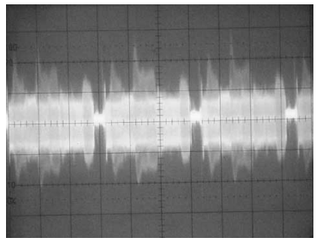
②IC301 PIN72 X : 0.1V DIV
REC COLOR(PAL) Y : 20uS DIV



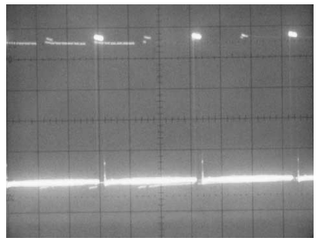
③IC301 PIN72 X : 0.1V DIV
PB COLOR(PAL) Y : 20uS DIV



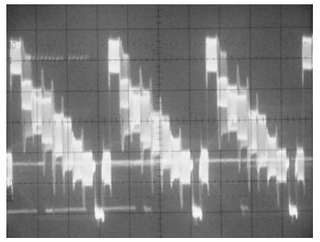
④IC301 PIN72 X : 0.1V DIV
PB COLOR(SCM) Y : 20uS DIV



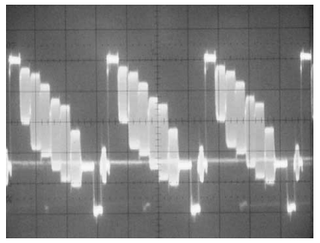
⑤IC301 PIN72 X : 0.1V DIV
PB COLOR(SCM) Y : 20uS DIV



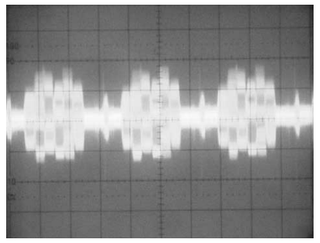
⑥IC301 PIN3 X : 1V DIV
C.SYNC Y : 20uS DIV



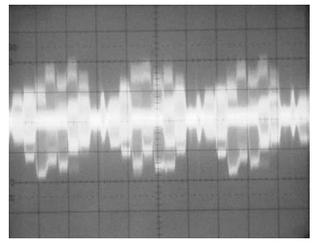
⑦IC301 PIN32 X : 0.2V DIV
REC SECAM Y : 20uS DIV



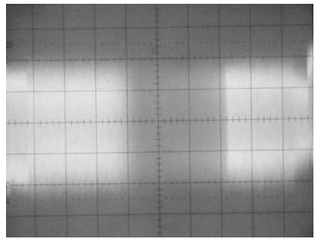
⑧IC301 PIN36 X : 0.2V DIV
VIDEO INPUT(REC) Y : 20uS DIV



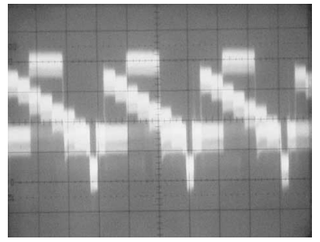
⑨IC301 PIN51 X : 0.1V DIV
COMB OUT(REC) Y : 20uS DIV



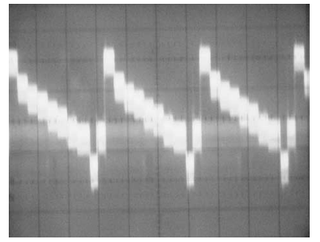
⑩IC301 PIN51 X : 0.1V DIV
COMB OUT(PB) Y : 20uS DIV



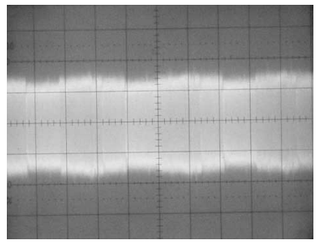
⑪IC301 PIN74 X : 0.1V DIV
PB ENVE Y : 2mS DIV



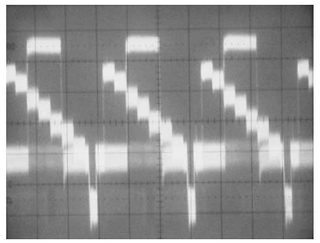
⑫IC301 PIN41 X : 0.1V DIV
Y-DLY OUT(PB) Y : 20uS DIV



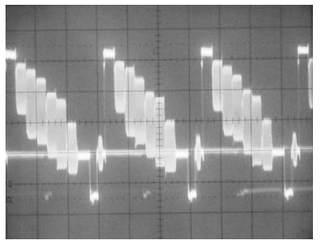
⑬IC301 PIN41 X : 0.1V DIV
Y-DLY OUT(REC) Y : 20uS DIV



⑭IC301 PIN18 X : 0.1V DIV
PB Y-FM Y : 20uS DIV

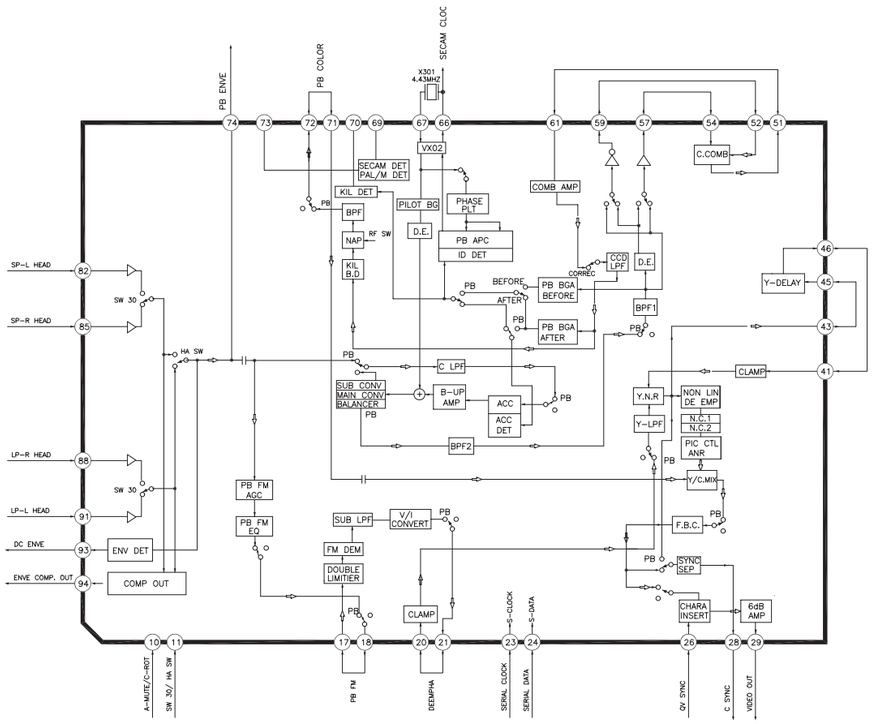


⑮IC301 PIN21 X : 0.1V DIV
DEEMPHA OUT(PB) Y : 20uS DIV

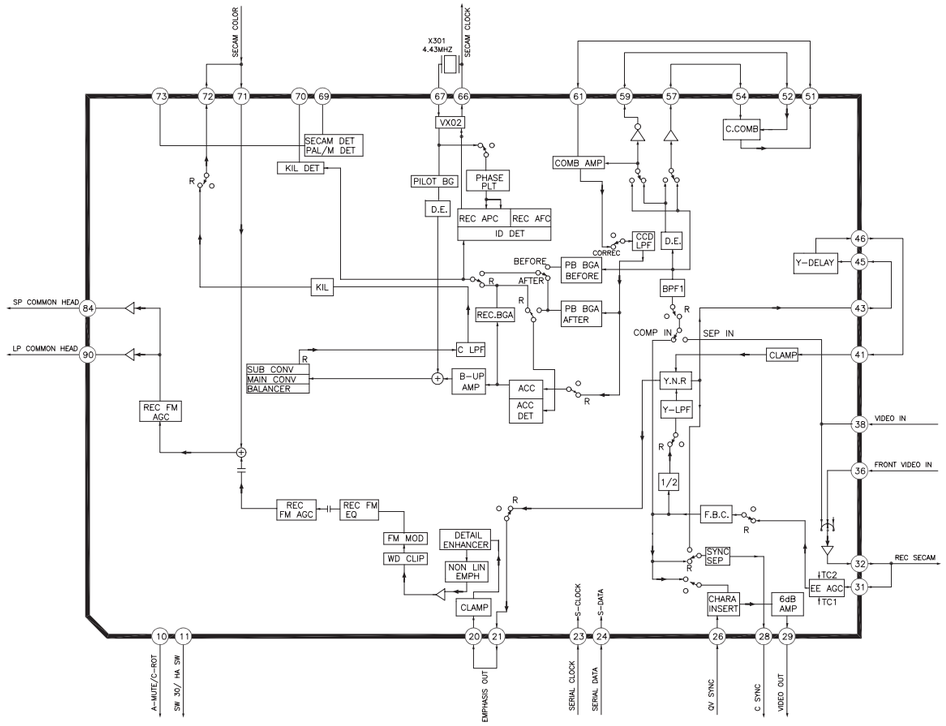


⑯IC301 PIN29 X : 0.5V DIV
VIDEO OUT (REC) Y : 20uS DIV

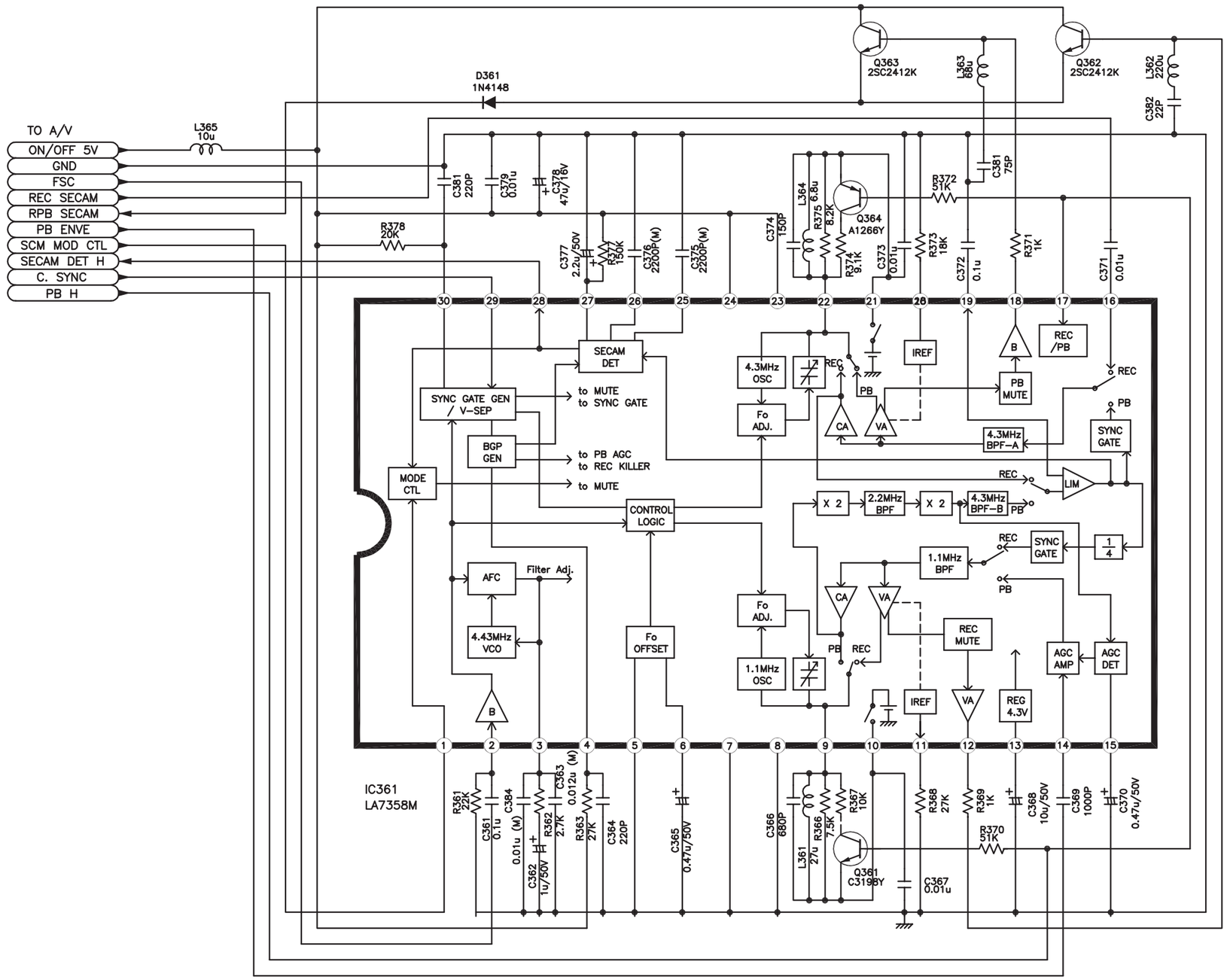
VIDEO PLAYBACK PATH FOR PAL



VIDEO RECORD PATH FOR PAL



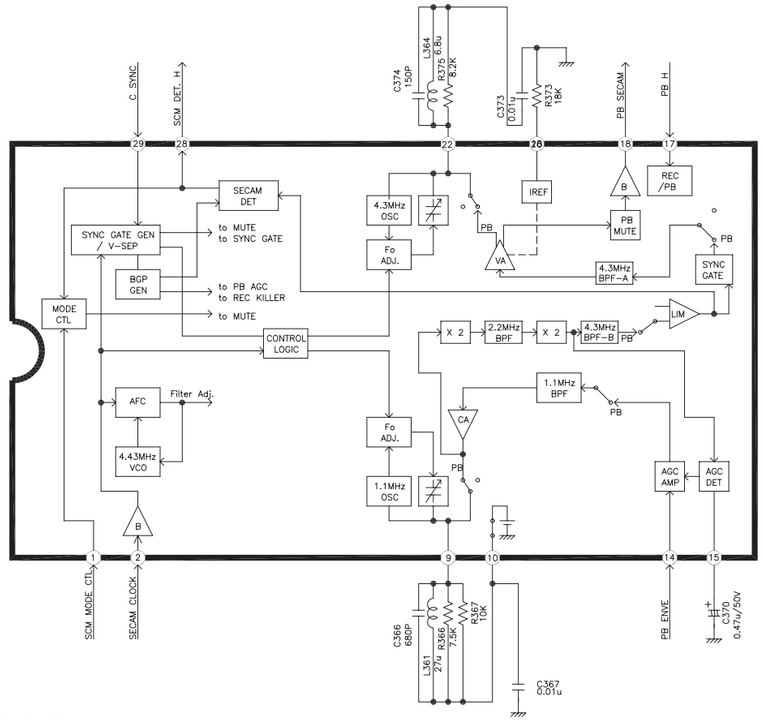
SECAM COLOR CIRCUIT DIAGRAM



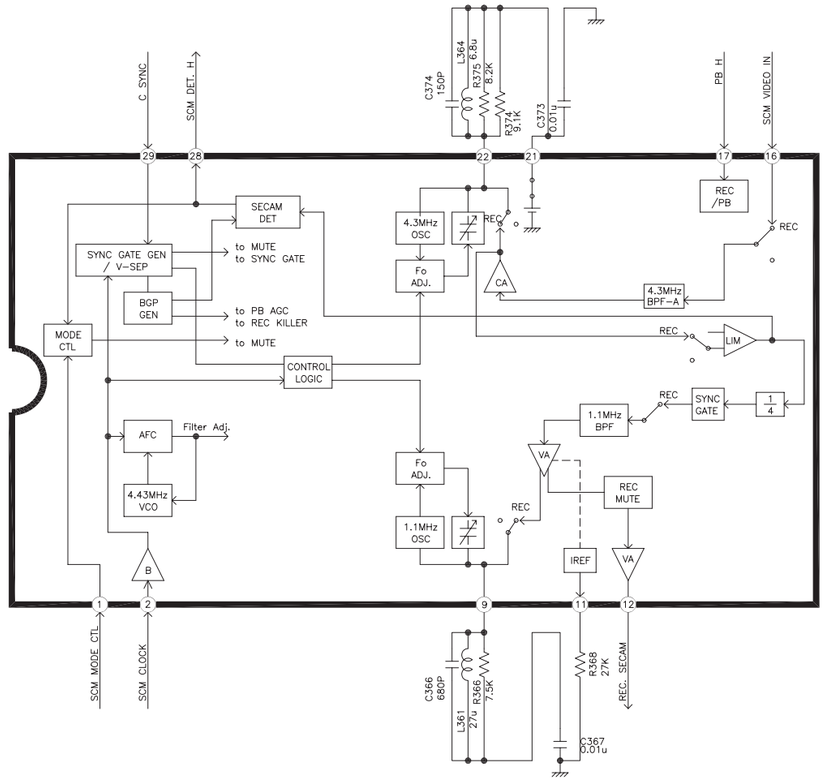
SECAM COLOR		MODE		
LOC.	PIN	EE	PLAY	REC.
IC361	1	2.54	2.5	2.5
	2	2	2	2
	3	3.54	4	4
	4	1.3	1.3	1.3
	5	0	0	0
	6	2.2	3	3
	7	0	0	0
	8	0	0	0
	9	2.52	2.6	2.6
	10	2.52	2.6	2.6
	11	2.33	2.4	2.4
	12	2.65	0	2.6
	13	4.29	4.4	4.4
	14	2.59	2.6	2.6
	15	3.02	2	3
	16	2.65	2.8	2.8
	17	0.04	5	0
	18	0	2.6	0
	19	2.1	2.1	2.1
	20	2.3	2.3	2.3
	21	2.57	2.6	2.6
	22	2.57	2.6	2.6
	23	5	5	5
	24	5	5	5
	25	2.5	3	3
	26	2.5	3	3
	27	2.85	2.8	4.5
	28	0.13	1	4.5
	29	0.6	0.6	0.6
	30	0.8	0.8	0.8

SECAM COLOR		MODE		
LOC.	PIN	EE	PLAY	REC.
Q361	E	2.52	2.55	2.52
	B	-0.03	-0.03	-0.03
	C	2.52	2.52	2.51
Q362	E	2.67	271	2.62
	B	2.64	2.64	2.63
	C	5	5	5
Q363	E	2.56	2.62	2.55
	B	1.57	2.69	1.57
	C	5	5	5
Q364	E	2.57	2.55	2.56
	B	1.99	1.99	1.99
	C	2.56	2.55	2.55

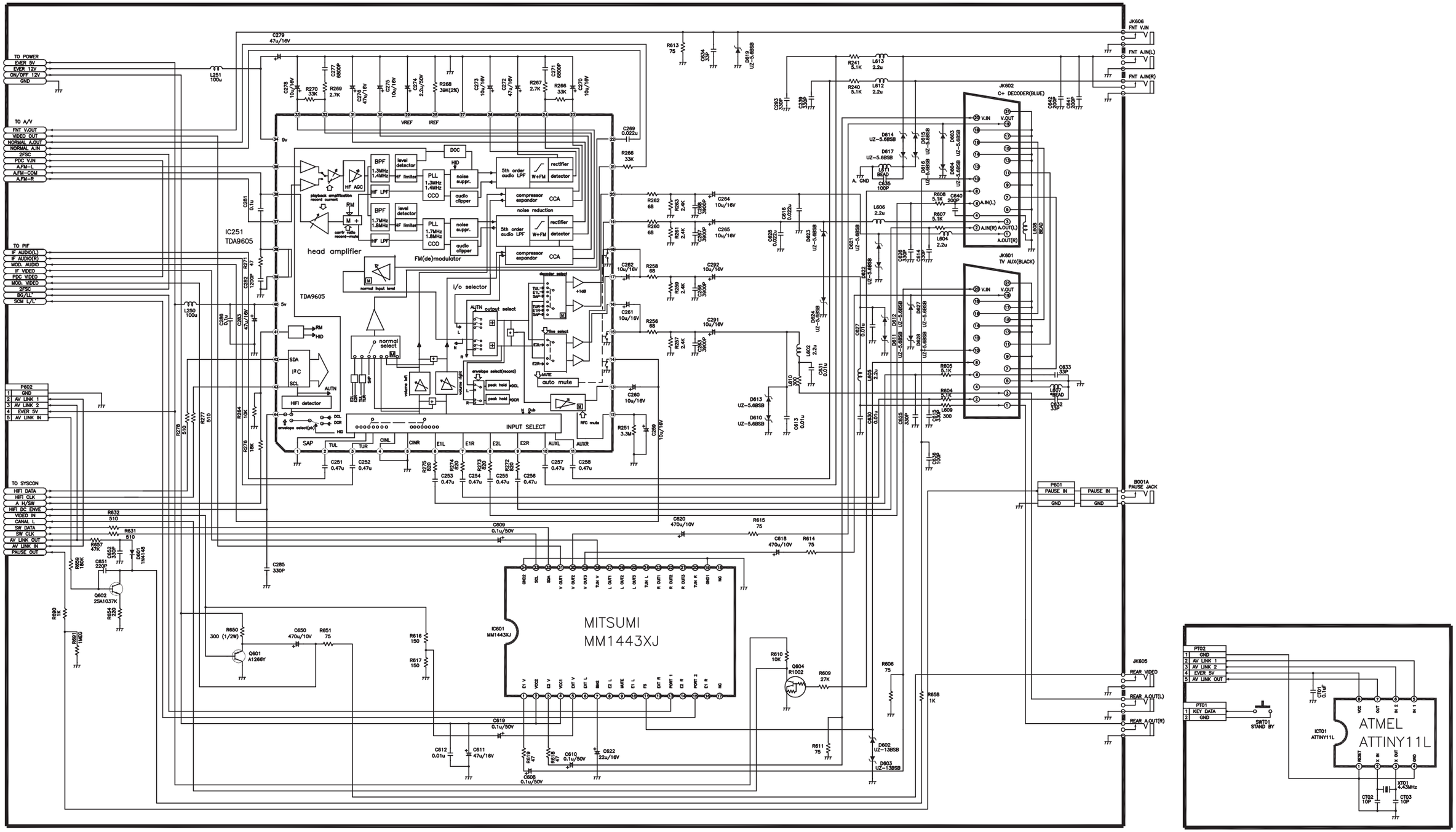
SECAM PLAYBACK PATH



SECAM RECORD PATH



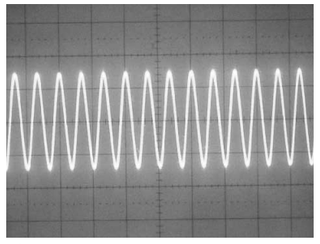
HIFI & SW CIRCUIT DIAGRAM



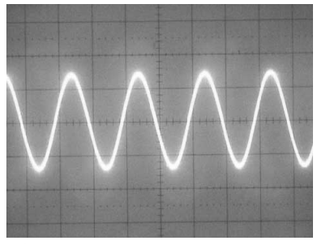
HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC251	1	0	0	0
	2	3.83	3.83	3.83
	3	3.83	3.83	3.83
	4	0	0	0
	5	0	0	0
	6	3.83	3.83	3.83
	7	3.83	3.83	3.83
	8	3.83	3.83	3.83
	9	3.83	3.83	3.83
	10	3.83	3.83	3.83
	11	3.83	3.83	3.83
	12	0	0	0
	13	3.88	3.88	3.88
	14	0	0	0
	15	0	0	0
	16	4.58	4.58	4.58
	17	4.58	4.58	4.58
	18	0	0	0
	19	4.57	4.57	4.57
	20	4.57	4.57	4.57
	21	4.6	4.6	4.6
	22	3.83	3.83	3.83
	23	3.87	3.87	3.87
	24	3.88	3.88	3.88
	25	3.88	3.88	3.88
	26	0.81	0.81	0.81
	27	0	0	0
	28	3.84	3.84	3.84
	29	3.87	3.87	3.87
	30	0.81	0.81	0.81
	31	3.88	3.88	3.88
	32	3.88	3.88	3.88
	33	3.87	3.87	3.87
	34	12.4	12.4	12.4
	35	0.63	0.63	0.63
	36	0.63	0.63	0.63
	37	0.63	0.63	0.63
	38	0	0	0
	39	0	0	0
	40	5	5	5
	41	0.9	0.9	0.9
	42	4.6	4.6	4.6
	43	4.6	4.6	4.6
	44	0.12	1.83	0.12

HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC601	1	2.7	2.7	2.7
	2	12.5	12.5	12.5
	3	2.7	2.7	2.7
	4	12.5	12.5	12.5
	5	2.96	2.96	2.96
	6	5.87	5.87	5.87
	7	5.95	5.95	5.95
	8	5.87	5.87	5.87
	9	0	0	0
	10	5.87	5.87	5.87
	11	0	0	0
	12	5.87	5.87	5.87
	13	1.04	1.04	1.04
	14	5.87	5.87	5.87
	15	0.04	0.04	0.04
	16	5.87	5.87	5.87
	17	0	0	0
	18	0	0	0
	19	0	0	0
	20	5.87	5.87	5.87
	21	5.97	5.97	5.97
	22	5.98	5.98	5.98
	23	5.91	5.91	5.91
	24	5.87	5.87	5.87
	25	5.97	5.97	5.97
	26	5.97	5.97	5.97
	27	5.89	5.89	5.89
	28	0	0	0
	29	1.95	1.95	1.95
	30	1.47	1.47	1.47
	31	0	0	0
	32	4.65	4.65	4.65
	33	0	0	0
	34	0	0	0

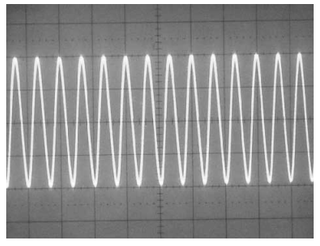
HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
Q601	E	4.14	4.14	4.14
	B	3.41	3.41	3.41
	C	0	0	0
Q602	E	0	0	0
	B	0	0	0
	C	5.36	5.36	5.36



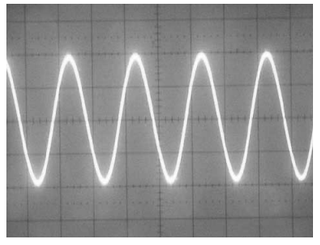
①IC251 PIN2 X : 0.1V DIV
IF A.IN LEFT Y : 0.5mS DIV



②IC251 PIN3 X : 0.5V DIV
IF A.IN RIGHT Y : 0.5mS DIV

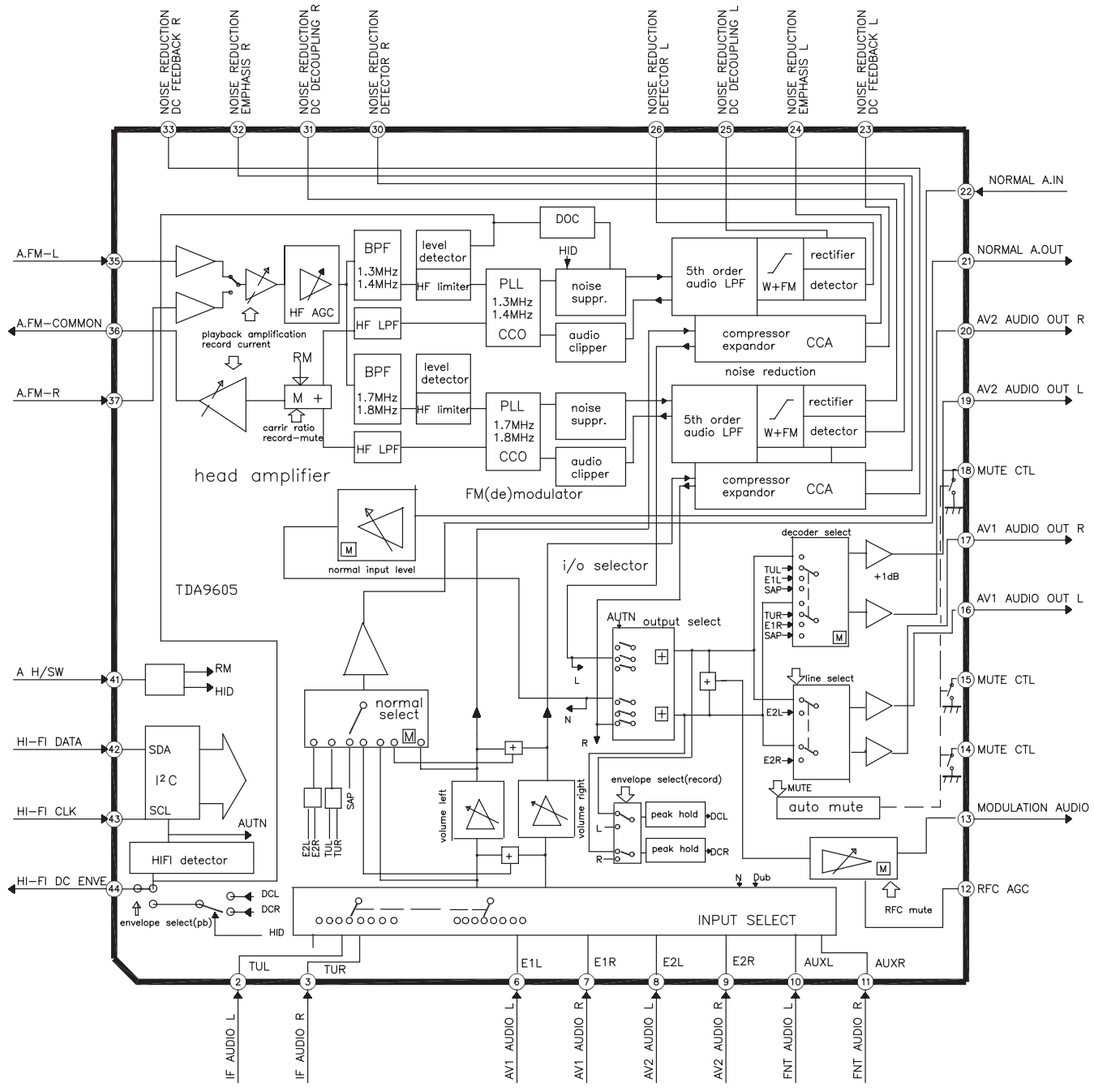


③IC251 PIN16 X : 0.5V DIV
A.OUT LEFT Y : 0.5mS DIV

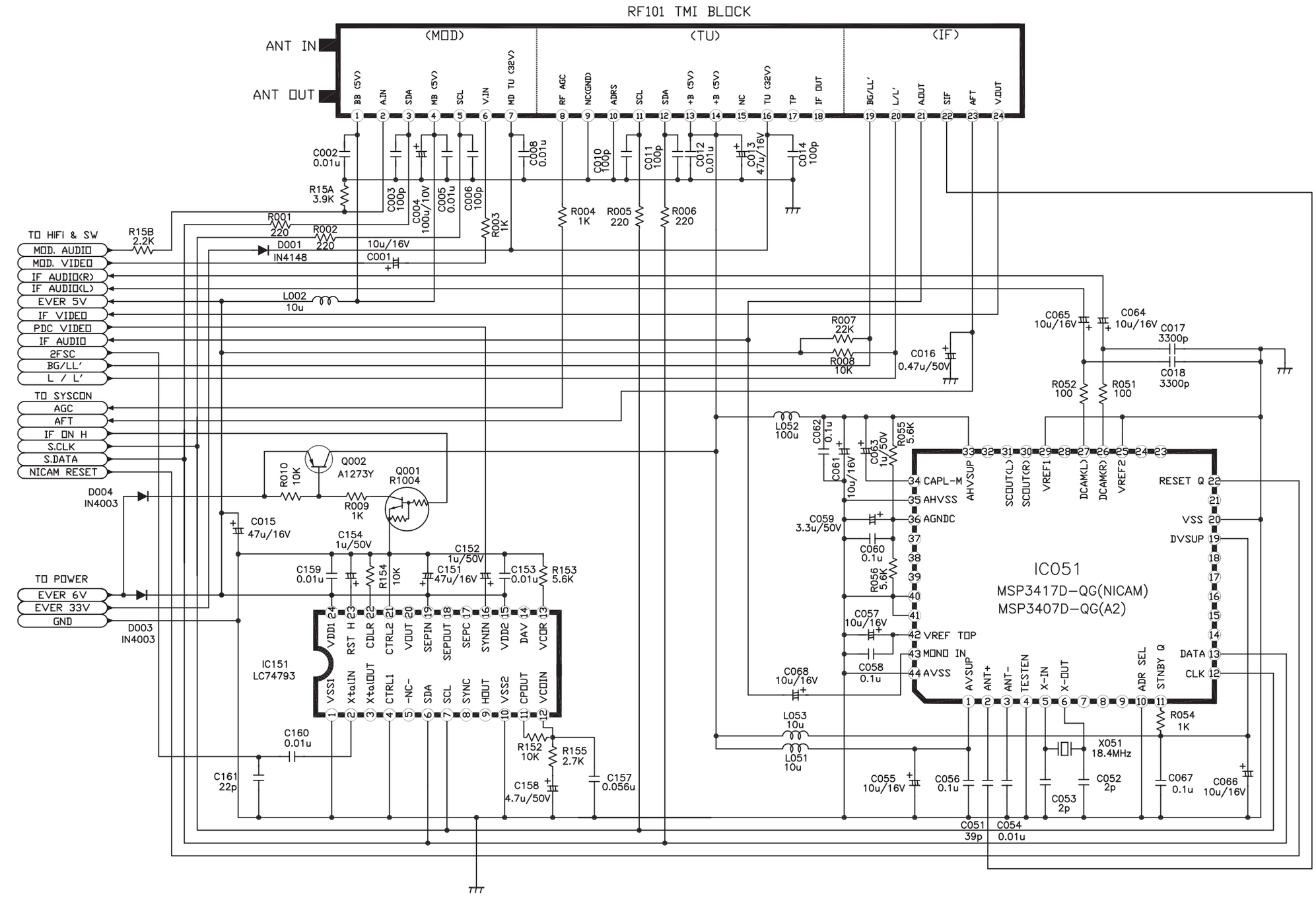


④IC251 PIN17 X : 0.5V DIV
A.OUT RIGHT Y : 0.5mS DIV

HIFI BLOCK DIAGRAM



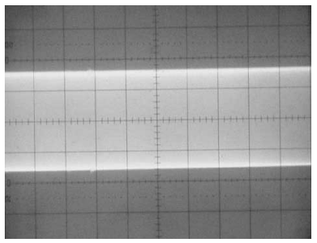
PIF CIRCUIT DIAGRAM



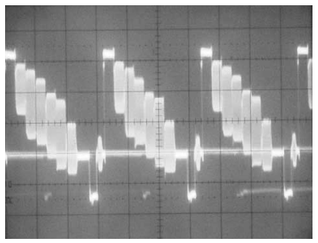
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC051	1	4.87	0	4.87
	2	4.92	0.05	4.92
	3	1.49	0	1.49
	4	0	0	0
	5	2.23	0.07	2.23
	6	2.21	0.06	2.21
	7	1.45	0.05	1.45
	8	1.54	0	1.54
	9	1.54	0.05	1.54
	10	0	0	0
	11	4.9	0	4.9
	12	4.67	4.6	4.67
	13	4.61	4.5	4.61
	14	1.31	0.03	1.31
	15	1.14	0.04	1.14
	16	1.26	0.04	1.26
	17	0.97	0.04	0.97
	18	0.86	0.04	0.86
	19	4.9	0	4.9
	20	0	0	0
	21	1.3	0.05	1.3
	22	5	0	5
	23	0	0	0
	24	0	0	0
	25	0	0	0
	26	1.31	0	1.31
	27	0.32	0	0.32
	28	0	0	0
	29	0	0	0
	30	2.45	0.05	2.45
	31	2.46	0.06	2.46
	32	0	0	0
	33	4.9	0	4.9
	34	3.37	0	3.37
	35	0	0	0
	36	2.46	0	2.46
	37	0	0	0
	38	0	0	0
	39	0	0	0
	40	0	0	0
	41	0	0	0
	42	2.6	0	2.6
	43	2.45	0.12	2.45
	44	0	0	0

PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC151	1	0	0	0
	2	2.49	2.68	2.64
	3	2.51	2.72	2.68
	4	0	0	0
	5	0	0	0
	6	4.6	4.7	4.7
	7	4.7	4.9	4.9
	8	5	5	5
	9	4.7	4.74	0
	10	0	0	0
	11	1.63	2.74	1.63
	12	1.63	3.18	1.63
	13	0.57	1.17	0.56
	14	1.87	1.54	1.53
	15	5	5	5
	16	2.57	3.02	2.75
	17	2.55	2.57	2.55
	18	5	5	5
	19	5	5	5
	20	5	5	5
	21	0	0	0
	22	3.56	3.79	3.74
	23	5	5	5
	24	5	5	5

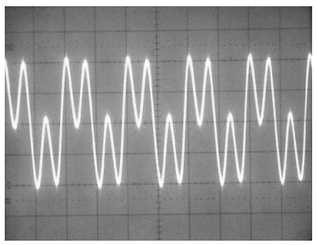
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
Q001	E	0	0	0
	B	5.1	0	5.1
	C	0	5.68	0
Q002	E	5.06	5.06	5.06
	B	4.31	5.68	4.3
	C	4.95	0	4.92



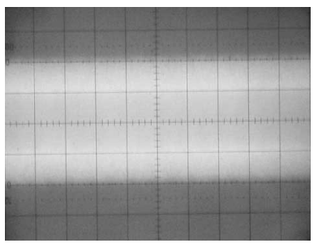
①IC151 PIN2 X : 0.5V DIV
2FSC IN Y : 2uS DIV



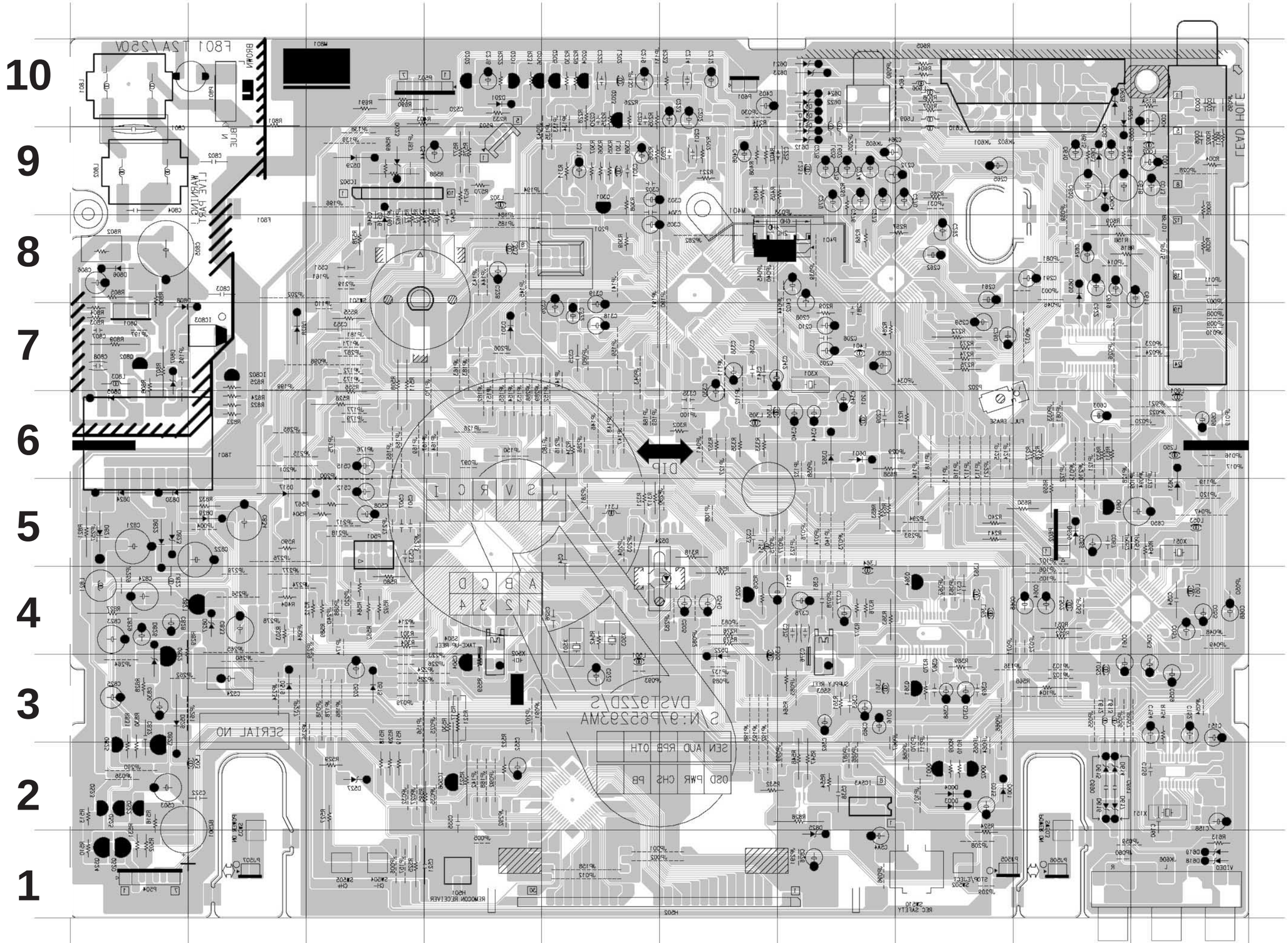
②IC151 PIN16 X : 0.5V DIV
PDC V.IN Y : 20uS DIV

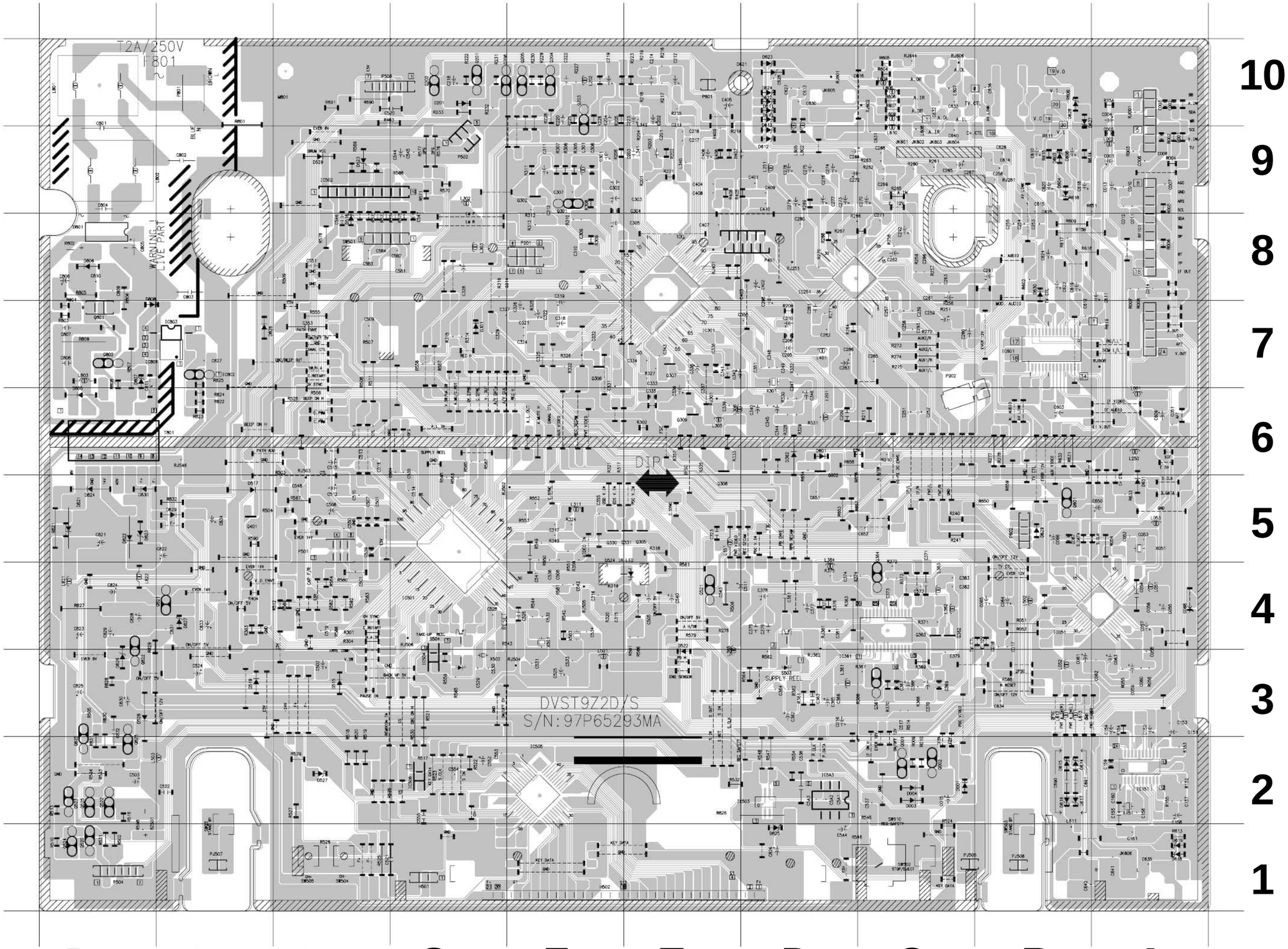


③IC051 PIN43 X : 0.2V DIV
MONO IN Y : 0.5mS DIV



④IC051 PIN2 X : 0.1V DIV
SIF IN Y : 0.5mS DIV


10
9
8
7
6
5
4
3
2
1
A
B
C
D
E
E
G
H
I
J
F801 T2A/250V
LEAD HOLE
SERIAL NO
DVS7922D/S
S/N:97P6529S3MA
OSD PWR CHS PB
SEN AUD RPB OTH


T2A/250V
F801
WARNING
LIVE PART
DIP
DVST972D/S
S/N:97P65293MA
10
9
8
7
6
5
4
3
2
1
J
I
H
G
F
E
D
C
B
A

COMPONENTS LOCATION

C001		J 9
C002		J 10
C003		J 10
C004		J 10
C005		J 9
C006		J 9
C007	*	J 9
C008	*	J 9
C010	*	J 9
C011	*	J 9
C012	*	J 9
C013		J 9
C014	*	J 8
C015		H 2
C016		G 3
C017	*	I 4
C018	*	I 4
C051	*	J 6
C052	*	J 5
C053	*	J 5
C054		J 4
C055		J 4
C056	*	J 4
C057		J 4
C058	*	J 3
C059		J 3
C060	*	J 3
C061		I 3
C062	*	J 3
C063		J 3
C064		I 4
C065		I 4
C066		I 5
C067		I 5
C068		J 4
C151		J 3
C152		J 3
C153	*	J 3
C154		J 3
C155	*	J 2
C156	*	J 2
C157	*	J 2
C158		J 2
C159		J 2
C160		J 2
C161	*	J 1
C201		F 9
C202		F 10
C203		F 9
C204		E 10
C205		G 7
C206		G 7
C208		G 8
C209		G 6
C210		G 7
C212		F 10
C213	*	F 10
C214		F 10
C216	*	F 9
C217	*	F 9
C218		D 10
C219		E 10
C220		E 10
C222		E 10
C223		F 10
C225		G 9
C239	*	H 7
C251	*	H 6
C252	*	H 6
C253	*	I 8
C254	*	I 8
C255	*	I 8
C256	*	I 9
C257	*	H 7
C258	*	H 7
C259		H 7
C260		H 7
C261		H 8
C262		H 8
C263	*	H 8

C264		G 9
C265		H 9
C266	*	H 8
C267	*	H 9
C268	*	H 9
C269	*	H 9
C270		H 9
C271	*	H 8
C272		G 9
C273		G 9
C274		G 9
C275		G 9
C276		G 9
C277	*	G 9
C278		G 9
C279		G 9
C280	*	G 8
C281		G 7
C282	*	G 7
C283		G 7
C285	*	H 7
C286	*	G 7
C291		I 8
C292		H 8
C293	*	H 7
C301		E 9
C302		E 9
C303		E 9
C304		E 9
C305		E 8
C307	*	E 9
C308		E 9
C309	*	E 8
C310	*	E 8
C311		E 9
C312	*	E 8
C314	*	D 8
C315	*	E 4
C316	*	E 4
C317	*	E 5
C318		E 7
C319		E 7
C321	*	E 7
C322		E 7
C323		F 5
C324	*	E 7
C325		E 7
C326		E 7
C327	*	D 7
C328		D 8
C329	*	D 7
C330		F 6
C331	*	E 7
C332	*	E 7
C333	*	F 7
C334	*	F 7
C335		F 6
C336		F 7
C337	*	F 7
C338		F 7
C339	*	F 6
C340		G 6
C341		F 7
C342		F 7
C343	*	F 7
C344		G 6
C345	*	G 6
C346		G 6
C347	*	G 6
C348	*	G 7
C349	*	G 7
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C351	*	G 7
C353		C 7
C355	*	E 5
C361		G 4
C362		G 3
C363		G 3
C364	*	G 3
C365		G 3
C366	*	G 3
C367		H 3
C368		H 3
C369		H 3

C370		H 3
C371		H 4
C372	*	H 4
C373	*	H 4
C374	*	G 4
C375		G 4
C376		G 4
C377		G 4
C378		G 4
C379	*	H 3
C381	*	G 4
C382	*	H 4
C383	*	H 4
C401	*	G 9
C402		G 8
C403	*	G 8
C404	*	F 9
C405		F 10
C406		F 9
C407	*	F 8
C408	*	F 9
C409	*	G 9
C410	*	G 9
C501		C 5
C502		C 3
C503		A 2
C504	*	D 6
C505		F 4
C506	*	E 5
C507		C 5
C508		C 5
C509	*	C 7
C510	*	C 5
C511		F 4
C512		C 5
C513	*	C 6
C514	*	D 5
C515		C 6
C516	*	C 6
C517	*	H 3
C519	*	C 4
C520		D 10
C521		D 1
C522		B 2
C524		B 3
C525		E 3
C526		E 4
C528	*	D 4
C529	*	D 3
C530	*	D 3
C531	*	E 3
C532	*	E 4
C533	*	E 3
C534	*	E 4
C535	*	D 6
C536	*	E 5
C537	*	H 2
C538		G 2
C539		C 5
C540		F 4
C541		E 5
C542	*	E 4
C543	*	F 4
C544		D 9
C545	*	D 9
C546		C 8
C547		D 8
C548	*	C 5
C550	*	C 5
C551		C 8
C552		D 2
C553	*	D 2
C554	*	D 2
C555		D 2
C5A1	*	G 2
C5A2	*	G 2
C5A3	*	G 2
C5A4		G 1
C5B1	*	D 8
C5B2	*	D 8
C5B3	*	C 8
C5B4	*	C 8
C5C1	*	C 4
C603		I 6

C608		I 9
C609		J 6
C610		I 9
C611		J 8
C612	*	I 7
C613	*	G 10
C614	*	I 9
C615	*	I 9
C616	*	H 10
C618		I 9
C619		I 8
C620		I 9
C622		I 8
C624		I 8
C625	*	I 9
C626	*	I 9
C627	*	G 10
C628	*	G 10
C630	*	G 10
C631	*	H 9
C632	*	H 10
C633	*	H 10
C634	*	I 3
C635	*	J 1
C636	*	I 10
C640	*	H 9
C641	*	J 1
C642	*	I 1
C650		J 5
C651	*	G 5
C652	*	H 5
C690		I 2
C691		I 2
C801		A 9
C802		B 9
C803		B 8
C804		A 9
C805		A 8
C806		A 8
C807		A 7
C808		A 7
C809	*	A 8
C810	*	A 8
C811	*	A 7
C821		A 5
C822		B 5
C823		A 4
C824		A 4
C825		A 3
C826		G 1
C827	*	B 7
C828		A 4
C829		A 4
C830		A 3
C831	*	B 4
C832		A 3
C833		B 4
C834		B 5

L001		J 6
L002		J 9
L051		J 4
L052		I 3
L053		J 5
L151		F 5
L201		G 6
L202		E 10
L250		J 6
L251		G 9
L301		E 9
L302		D 9
L303		D 8
L305		F 6
L306		F 6
L311		E 5
L340	*	F 9
L341	*	F 9
L342	*	F 10
L361		G 3
L362		H 4

L363		H 4
L364		G 4
L365		F 3
L401		G 7
L501		E 3
L502		I 4
L503		B 2
L602		G 10
L604		H 10
L605		G 10
L606		H 10
L607	*	H 10
L608	*	H 9
L609		H 10
L610		H 9
L611	*	I 1
L612		I 3
L613		I 3
L801		A 10
L802		A 9
L803		A 7
L821		A 4
L822		A 4

P201		D 8
P202		H 6
P401		G 8
P501		C 5
P502		D 9
P503		D 10
P504		A 1
P601		F 10
P602		I 5
P801		B 10
PJ505		H 1
PJ506		I 1
PJ507		B 1

D001		H 2
D003		H 2
D004		H 2
D201		D 10
D301		D 7
D362		G 6
D515		C 3
D516		C 8
D517		B 5
D519		B 3
D522		F 3
D523		C 9
D524		E 4
D526		A 3
D527		C 2
D529		C 9
D601		G 6
D603		I 9
D604		I 9
D610		G 10
D611		G 10
D612		G 9
D613		G 9
D614		I 2
D615		I 2
D616		I 2
D617		I 2
D618		J 1
D619		J 1
D621		G 10
D622		G 10
D623		G 10
D624		G 10
D627		I 10
D628		I 10
D629		I 5
D630		I 8
D631		J 5
D801	*	A 8

D805		A 6
D806		A 8
D807		A 7
D808		A 7
D821		A 5
D822		A 5
D823		A 5
D824		A 5
D825		G 1
D826		A 3
D827		B 4
D828		B 7
D829		B 5
D830		A 5

BZ501		A 2
F801		B 10
H501		D 1
H502		G 1
JK601		H 10
JK602		H 10
JK605		G 10
JK606		J 1
M801		C 10
RF101		J 10
S503		G 3
S504		D 3
T801		A 6

IC051	*	J 4
IC151	*	J 2
IC251	*	G 8
IC301	*	F 8
IC361	*	H 4
IC501	*	D 5
IC502		C 9
IC503	*	G 2
IC504		D 3
IC505	*	E 2
IC506		D 2
IC601	*	I 7
IC801		B 7
IC802		B 7
IC803		B 7

JP001		E 1
JP002		E 1
JP003		I 8
JP004		B 5
JP005		D 1
JP006		C 1
JP007		J 8
JP008		J 7
JP009		J 7
JP010		J 7
JP011		J 8
JP012		E 1
JP013		I 6
JP014		I 8
JP015		J 8
JP016		J 6
JP017		J 6
JP018		C 3
JP019		J 6
JP020		J 6
JP021		J 6
JP022		J 6
JP023		J 7
JP024		J 7
JP025		D 3

* SOLDER SID - COTÉ CUIVRE - CÖSEITE - LATO SALDATURE - LADO DEL COBRE

JP026		I 7
JP027		C 2
JP028		J 9
JP029		H 6
JP030		F 10
JP031		H 9
JP032		C 2
JP033		I 6
JP034		H 7
JP035		D 2
JP036		A 2
JP037		I 7
JP038		G 8
JP039		G 8
JP040		F 8
JP041		F 6
JP042		E 9
JP043		E 7
JP044		G 7
JP045		F 8
JP046		I 8
JP047		J 5
JP048		J 4
JP049		J 4
JP050		J 4
JP051		J 5
JP052		I 5
JP053		I 4
JP054		J 3
JP055		I 3
JP056		I 3
JP057		J 3
JP058		G 6
JP059		I 1
JP060		I 1
JP061		I 6
JP062		H 4
JP063		H 4
JP064		H 2
JP065		H 2
JP066		H 3
JP067		G 2
JP068		H 2
JP069		I 9
JP070		H 2
JP071		I 4
JP072		I 4
JP073		G 5
JP074		G 5
JP075		F 5
JP076		G 5
JP077		G 5
JP078		G 4
JP079		C 3
JP080		E 7
JP081		I 8
JP082		F 4
JP083		F 4
JP084		B 4
JP085		G 3
JP086		G 2
JP087		G 2
JP088		C 4
JP089		F 3
JP090		H 10
JP091		D 3
JP092		D 2
JP093		E 3
JP094		J 5
JP095		J 10
JP096		G 1
JP097		D 6
JP098		C 7
JP099		G 2
JP100		F 6
JP101		H 2
JP102		I 3
JP103		I 3
JP104		I 3
JP105		I 4
JP106		I 4
JP107		I 5
JP108		F 5
JP109		J 5
JP110		C 7
JP111		F 7

JP112		F 7
JP113		H 6
JP114		H 6
JP115		H 6
JP116		H 6
JP117		H 6
JP118		H 6
JP119		J 5
JP120		J 5
JP121		I 6
JP122		I 6
JP123		G 5
JP124		H 6
JP125		H 6
JP126		D 6
JP127		F 6
JP128		I 6
JP129		J 5
JP130		E 10
JP131		E 10
JP132		G 6
JP133		E 10
JP134		E 10
JP135		E 9
JP136		H 3
JP137		F 3
JP138		C 9
JP139		C 9
JP140		G 5
JP141		E 8
JP142		D 2
JP143		D 8
JP144		D 8
JP145		D 8
JP146		E 6
JP147		E 6
JP148		E 6
JP149		E 7
JP150		D 6
JP151		D 6
JP152		E 6
JP153		D 6
JP154		D 6
JP155		D 6
JP156		C 3
JP157		C 1
JP158		E 1
JP159		E 7
JP160		C 8
JP161		C 8
JP162		C 8
JP163		D 7
JP164		D 6
JP165		C 6
JP166		C 6
JP167		D 6
JP168		D 2
JP169		C 6
JP170		D 7
JP171		C 7
JP172		C 7
JP173		C 7
JP174		C 4
JP175		C 6
JP176		C 6
JP177		C 6
JP178		C 3
JP179		C 6
JP180		E 6
JP181		C 7
JP182		D 6
JP183		D 7
JP184		D 8
JP185		D 8
JP186		C 3
JP187		C 9
JP188		E 6
JP189		E 6
JP190		F 8
JP191		E 8
JP192		F 3
JP193		F 3
JP194		D 9
JP195		A 7
JP196		C 9
JP197		A 7

JP198		F 3
JP199		B 6
JP200		C 5
JP201		B 6
JP202		B 8
JP203		E 5
JP204		E 5
JP205		G 9
JP206		D 7
JP207		D 3
JP208		H 1
JP209		H 1
JP210		I 6
JP211		H 2
JP212		C 5
JP213		C 5
JP214		C 4
JP215		B 6
JP216		E 6
JP217		C 5
JP218		C 5
JP219		C 8
JP220		C 4
JP221		H 6
JP223		C 3
JP224		C 3
JP225		C 3
JP226		C 3
JP234		B 3
JP236		C 3
JP237		B 3
JP239		C 4
JP240		C 4
JP256		B 4
JP257		A 5
JP259		A 4
JP260		B 3
JP261		A 3
JP262		A 3
JP264		A 3
JP265		B 4
JP274		B 4
JP276		B 5
JP277		B 4
JP278		B 4
JP279		B 4
JP280		F 5
JP281		E 5
JP282		F 8
JP283		F 4
JP285		B 6
JP286		E 6
JP287		C 7
JP288		D 6
JP289		D 6
JP290		A 2
JP291		G 1
JP292		D 2
JP293		H 5
JP294		H 5

R001		J 9
R002		J 9
R003	*	J 9
R004		J 9
R005		J 9
R006		J 8
R007	*	J 8
R008	*	J 8
R009		H 2
R010		H 2
R051		I 4
R052		I 4
R054		J 5
R055	*	J 3
R056	*	J 3
R152	*	J 2
R153	*	J 2
R154		J 3
R155	*	J 2
R15A		J 10

R15B		I 8
R201	*	F 9
R202		F 9
R203	*	F 9
R204	*	F 9
R205		E 10
R206		E 9
R209		G 7
R210	*	H 6
R211		H 6
R214		F 10
R215	*	F 10
R216	*	F 10
R217	*	F 10
R218	*	F 10
R219	*	F 10
R221		F 9
R222		D 10
R223		F 10
R225		E 10
R226		E 10
R227	*	E 10
R228		E 10
R229		E 10
R230		E 10
R231		D 10
R232	*	D 10
R233		D 10
R234		E 6
R240		H 5
R241		H 5
R251	*	H 7
R256	*	H 8
R257	*	H 8
R258	*	H 8
R259	*	H 8
R260	*	H 9
R261	*	H 9
R262	*	H 9
R263	*	H 9
R264		G 7
R265		H 9
R266	*	G 8
R267		H 8
R268		G 8
R269		G 9
R270	*	G 8
R271	*	G 7
R272		H 7
R273		H 7
R274		H 7
R275		H 7
R276		F 4
R277		I 6
R278		I 6
R301		C 4
R302		F 6
R303		B 4
R304		C 4
R305		E 9
R306		E 9
R307		E 9
R308		E 9
R309		E 8
R310	*	E 8
R311		E 9
R312	*	E 9
R313	*	E 8
R314	*	D 7
R315	*	D 7
R316	*	D 8
R317		E 5
R318		F 5
R319	*	E 4
R320	*	E 4
R321		E 5
R322	*	E 7
R324	*	E 5
R325	*	E 7
R326	*	E 7
R327	*	F 7
R328	*	G 6
R329	*	G 6
R330	*	G 6
R331	*	G 6
R332	*	G 7

R333		F 6
R335		F 6
R349	*	E 5
R350	*	E 5
R357		F 6
R361		G 3
R362	*	G 3
R363		G 4
R366	*	G 3
R367	*	H 3
R368	*	H 3
R369		H 3
R370		H 3
R371	*	H 4
R372	*	H 4
R373	*	H 4
R374	*	H 4
R375	*	G 4
R376		G 4
R377		G 4
R403		C 10
R404		B 4
R405		G 9
R406		F 9
R407		F 9
R408		F 9
R409	*	F 9
R501	*	F 4
R502		A 1
R503	*	C 5
R504		C 5
R505	*	A 3
R506		F 4
R507	*	C 7
R508		C 7
R509	*	C 8
R510		A 1
R511		C 7
R512		C 4
R513		A 2
R514	*	H 3
R516		A 2
R517		D 3
R518		C 2
R519		C 2
R520		C 2
R521		D 3
R522		D 2
R523		D 2
R524		H 1
R525		C 1
R526	*	C 1
R527		C 2
R528		C 6
R529		C 2
R530		D 3
R531		A 1
R532		F 2
R542		E 4
R543	*	D 4
R544	*	E 4
R545	*	H 2
R546	*	G 1
R547		G 2
R548		G 2
R549	*	E 5
R550	*	E 5
R551	*	E 5
R552	*	E 5
R553	*	E 5
R554		G 2
R555		C 7
R556		C 6
R557	*	D 7
R558	*	D 7
R559		D 3
R561		F 4
R562	*	G 3
R563	*	D 5
R564		G 3
R565	*	D 3
R566	*	F 4
R567		C 5
R568		I 3
R569		C 9
R570		D 9

R571		D 9
R572		C 8
R573		C 8
R574		D 8
R575		D 8
R576		D 9
R577		D 9
R578		C 8
R579		F 4
R580		C 4
R581	*	E 4
R582		C 4
R583	*	C 4
R584		C 4
R585	*	D 6
R586	*	C 4
R587	*	D 6
R588		C 9
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R590		B 5
R591	*	D 5
R592		C 4
R593	*	A 2
R594	*	A 2
R595		D 2
R596	*	A 1
R602	*	I 8
R604		H 10
R605		H 10
R606	*	I 10
R607		H 10
R608		H 10
R609		I 8
R611	*	I 9
R613		J 1
R614		I 9
R615		I 9
R616		I 8
R617	*	I 8
R618	*	I 9
R619	*	J 7
R631		I 6
R632		I 6
R633	*	J 5
R650		I 5
R651	*	I 9
R653		G 5
R654	*	G 6
R656	*	G 5
R657		G 5
R658		G 6
R659		I 5
R690		C 10
R691		C 10
R801		B 10
R802		A 8
R803		A 7
R804		A 7
R805		A 8
R806		A 8
R807		A 7
R808		A 7
R809		A 7
R821		A 5
R822		B 6
R823		B 6
R824		B 6
R825		B 7
R826		G 2
R827		A 4
R828		A 3
R829		A 4
R830		A 2
R831		A 2
R832		B 5
RJ001	*	J 10
RJ251	*	G 8
RJ281	*	I 9
RJ301	*	F 6
RJ361	*	G 4
RJ362	*	G 4
RJ401	*	F 8
RJ502	*	E 5
RJ503	*	C 5
RJ504	*	E 3
RJ505	*	E 4

* SOLDER SID - COT CUIVRE - C SEITE - LATO SALDATURE - LADO DEL COBRE

RJ506	*	D 4
RJ546	*	B 6
RJ601	*	G 10
RJ602	*	H 10
RJ606	*	H 10
RJ608	*	J 7
RJ644	*	H 10

SW03		B 1
SW501		C 8
SW502		H 1
SW503		I 1
SW504		C 1
SW505		C 1
SW510		H 1

X051		J 5
X151		J 2
X301		G 7
X501		E 4
X502		D 3
X503		E 4

Q001		H 2
Q002		H 2
Q201		D 10
Q202		D 10
Q203		E 10
Q204		E 10
Q205		E 10
Q206		D 10
Q301		E 9
Q302	*	E 9
Q305	*	F 5
Q306	*	E 7
Q307	*	F 7
Q308	*	F 6
Q309	*	F 6
Q330	*	E 5
Q331	*	F 5
Q361		H 3
Q362	*	H 4
Q363	*	H 4
Q364		H 4
Q401	*	B 5
Q520		A 1

Q521		F 4
Q522		A 2
Q523		A 2
Q524		A 1
Q525		A 2
Q601		I 5
Q602	*	G 6
Q801		A 7
Q802		A 7
Q821		B 4
Q822		A 3
Q823		A 2
Q825		A 2

* SOLDER SID - COTÉ CUIVRE - CÖSEITE - LATO SALDATURE - LADO DEL COBRE

Abbreviations

A H/SW	Audio Head Switching
AC	Alternating Current
ACC	Automatic Color Control
ACK	Automatic Color Killer
ADJ	Adjustment
AE	Audio Erase
AFC	Automatic Frequency Control
AFC	Automatic Frequency Control
AFT	Automatic Fine Tunning
AGC	Automatic Gain Control
ALC	Automatic Level Control
AMP	Amplifier
APC	Automatic Phase Control
AV	Audio Video
BG	
BGP	Burst Gate Pulse
BID	Burst Identification
BPF	Band Pass Filter
CAP	Capstan
CBC	Cable Box Control
CCD	Charge Coupled Device
CFG	Capstan Frequency Generator
CLK	Clock
COMP	Comparator
CSYNC	Composite Sync
CTL	Control
DEEMPHA	Deemphasis
DEM	Demodulation
DET	Detect
DOC	Drop Out Compensation
DRUM FF	Drum Flip Flop
EDS	Extended Data Service
EMPH	Emphasis
ENVE	Envelope
EQ	Equalizer
FBC	Feedback Clamp
FE	Full Erase
FF	Fast Forward
FG	Frequency Generator
FNT	Front
FWD	Forward
HA	Head AMP
HLF	Slice Filter
HPF	High Pass Filter
ID	Identifier
KIL	Killer
LECHA	Character Level
LM	Loading Motor
LP	Long Play
LPF	Low Pass Filter
M/T	Motor
MESECAM	Middle East Secam
MOD	Modulation / Mode
NC	Noise Canceller
OSD	On Screen Display
Burst Gate	PBPlayback
PCB	Printed Circuit Board
PDC	Program Delivery Control
PG	Pulse Generator
PIF	Picture IF
PLL	Phase Locked Loop
PWM	Pulse width Modulation
PWR	Power
QV SYNC	Quasi-Vertical Sync
REC	Record
REW	Rewind
SCL	Serial Clock
SCM	Secam
SDA	Serial Data
SEP	Separation
SMPS	Switch Mode Power Supply
SP	Standard Play
SW	Switching
V H/SW	Video Head Switching
VCA	Voltage Controlled Amplifier
VCO	VoltageControlled Oscillator
VCR	Video Cassette Recorder
VPS	Video Program System
WD CLIP	White Dark Clip
Y/C	Luminance/Chrominance

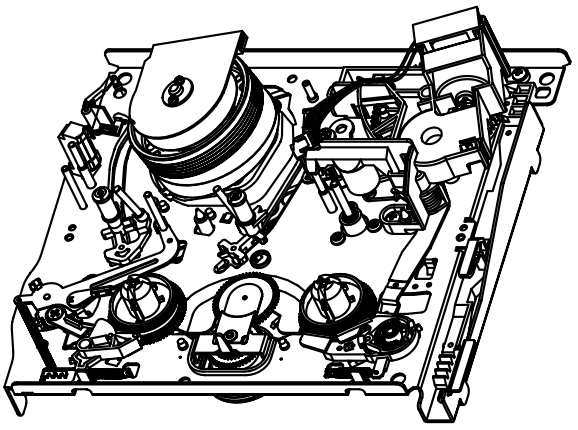
S/M No. : TMECHA

DAEWOO

Service Manual

VCR MECHANISM UNIT

(T-MECHA DECK)



DAEWOO ELECTRONICS CO., LTD.

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ASSEMBLY DIAGRAM AND A/S

1. Assembly diagram

1-1. DECK Assembly diagram

A. Upper View

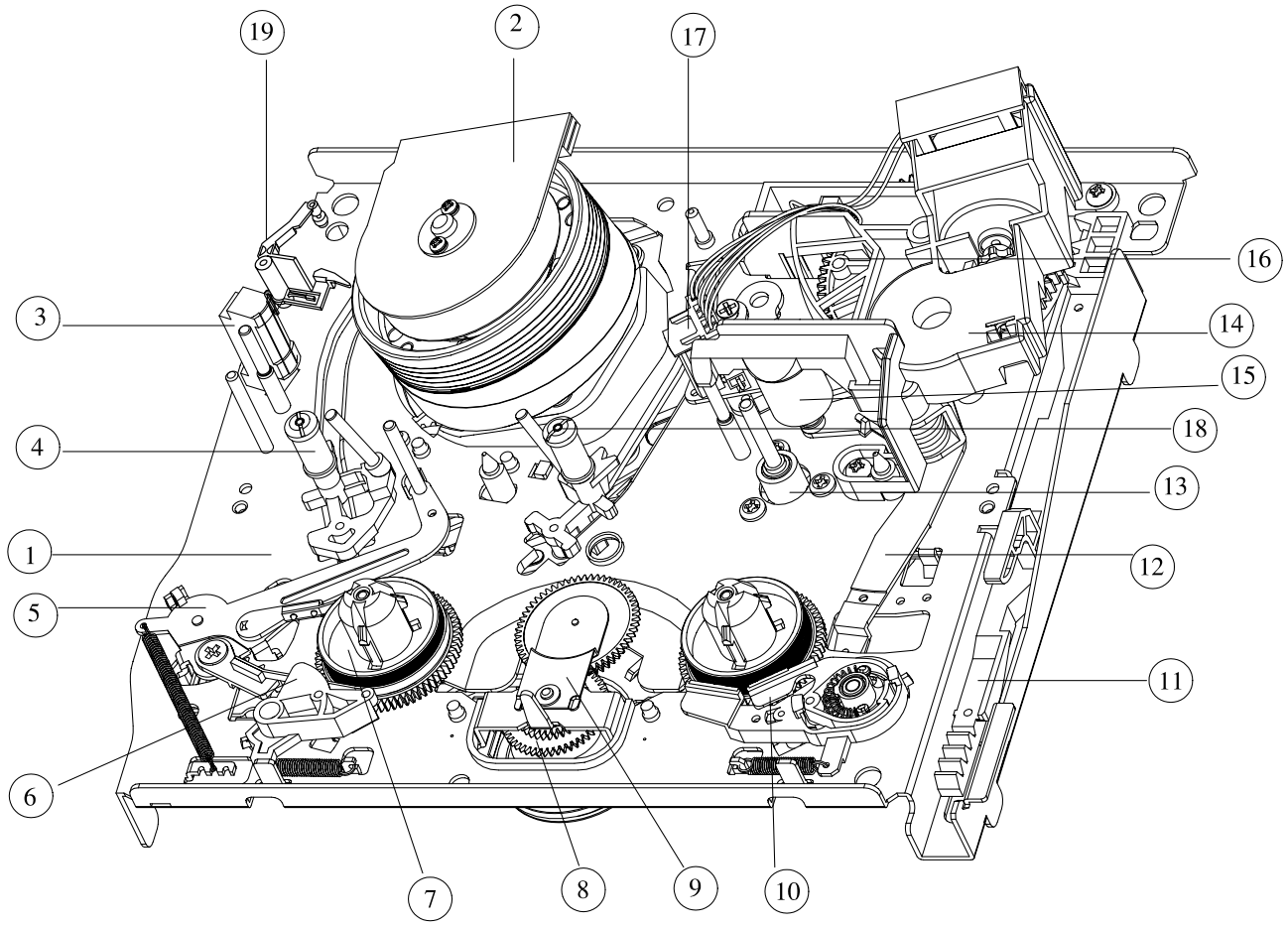


fig1-1

1 MAINBASE ASS'Y
2 DRUM ASS'Y
3 FE HEAD
4 S SLANT POLE ASS'Y
5 TENSION BAND ASS'Y
6 S BRAKE ASS'Y
7 S REEL TABLE
8 REEL BRKT TOTAL ASS'Y
9 IDLER PLATE TOTAL ASS'Y
10 T BRAKE ASS'Y
11 FL RACK
12 RELAY LEVER
13 CAPSTAN MOTOR
14 LC BRKT ASS'Y
15 PINCH LEVER TOTAL ASS'Y
16 CAM GEAR
17 AC HEAD ASS'Y
18 T SLANT POLE ASS'Y
19 HEAD CLEANER

ASSEMBLY DIAGRAM AND A/S (CONTINUED)

B. Lower View

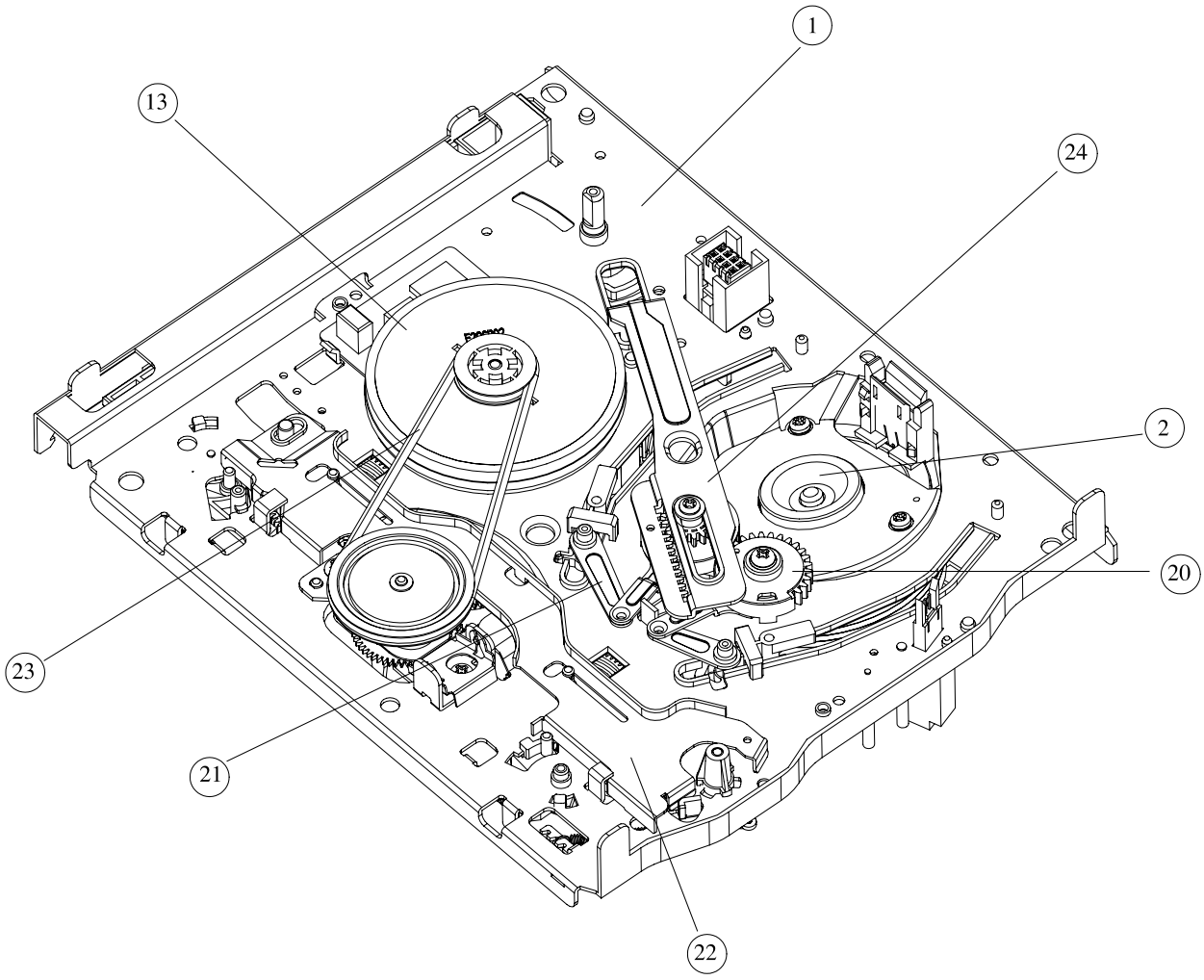


fig1-2

20 L LOADING ASS'Y

21 R LOADING ASS'Y

22 CONNECT PLATE

23 REEL BELT

24 LOADING RACK

ASSEMBLY DIAGRAM AND A/S (CONTINUED)

1-2. FRONT LOADING Assembly diagram

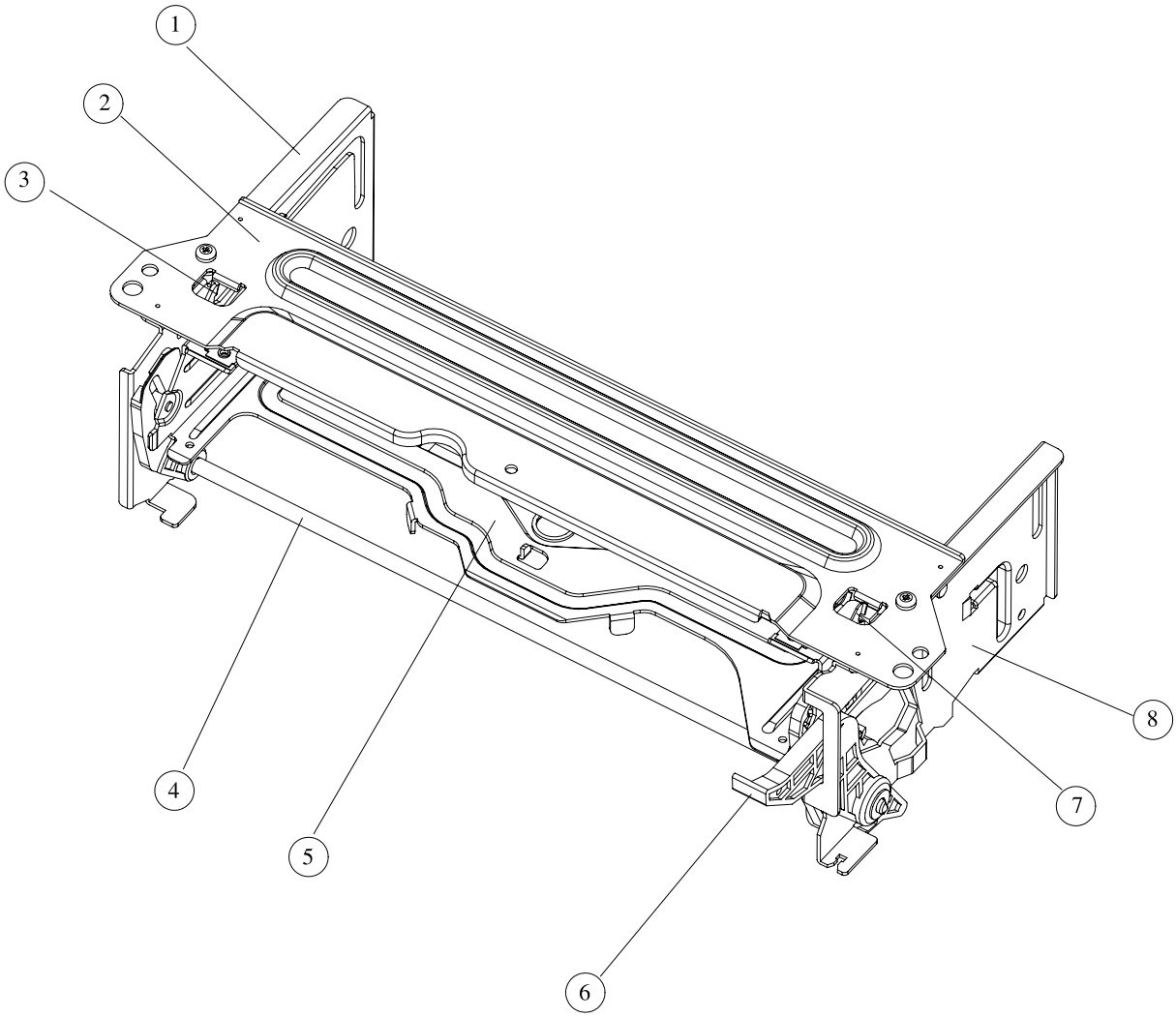
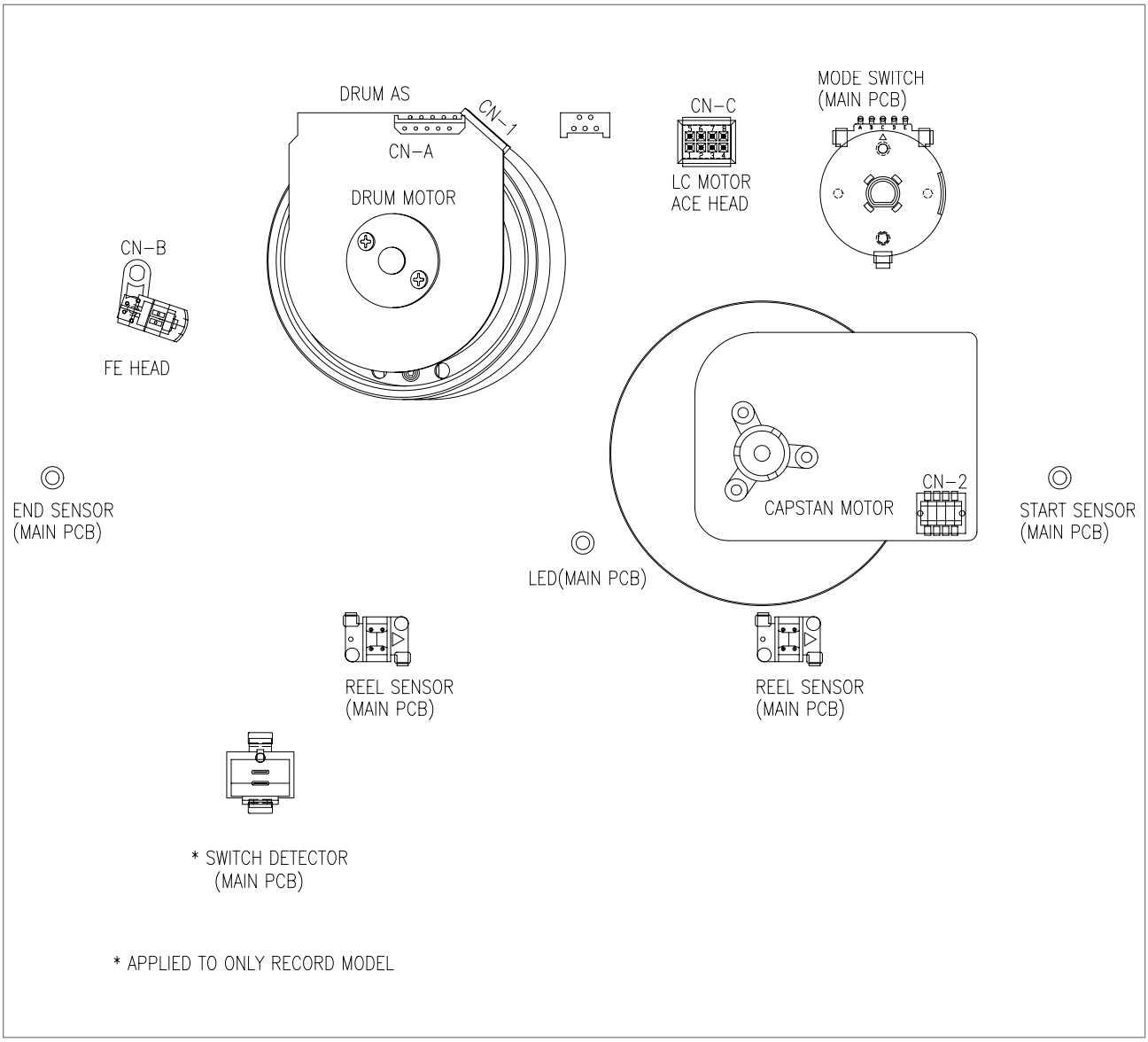


fig2

1	FL BRKT L	5	CST HOLDER AS
2	TOP PLATE	6	DOOR OPENER
3	SAFETY LEVER	7	SAFETY LEVER R
4	LOADING LEVER AS4	8	FL BRKT R

WIRE DIAGRAM

1. Wire Diagram



2. Connector Pin Arrangement

CN-A

4HEAD Hi-Fi	1	AFM-L
	2	AFM COMM
	3	AFM-R
2HEAD	4	SP-L
	5	SP COMM
	6	SP-R
	7	GND
4HEAD MONO	8	EP-R
	9	EP COMM
	10	EP-L

CN-B

1	FE HEAD
2	GND

CN-C

1	AE HEAD
2	CTL(-)
3	GND
4	CTL(+)
5	A.HEAD(PB)
6	LM(+)
7	A.HEAD(REC)
8	LM(-)

CN-1

1	GND
2	D.PWM
3	D.Vcc
4	D.FG
5	D.PG

CN-2

1	GND
2	GND
3	C.I.LIMIT
4	C.PWM
5	Vcc
6	C.FG
7	C.F/R
8	EVER 5V

PERIODIC MAINTENANCE AND SERVICE SCHEDULE

1. PERIODIC MAINTENANCE AND SERVICE SCHEDULE

A. In order to effectively maintain the excellent performance and fully utilize the features of this apparatus, and to lengthen the life of the mechanism and tapes, we strongly urge you to perform periodic maintenance and inspection, as described below.

* After repairing, do the maintenance described below, irrespective of the length of time in use.

B. Cleaning of the Head Drum Ass'y

- Clean the Drum assembly with a cleaning cloth soaked in liquid cleaner (alcohol) by placing lightly against the Drum and slowly revolving the rotating HEAD DRUM Ass'y by hand (Do not rotate the upper Drum by applying electric power to the motor when cleaning).
- Do not move the cleaning cloth in the vertical direction against the heat-tip.

C. Cleaning the tape transporting section.

- Clean the tape transporting parts with a cleaning cloth soaked in alcohol.

D. Cleaning of driving section

- Clean the driving section with a cloth soaked in alcohol.

E. Routine inspection

- Perform maintenance and inspection as separately described depending on the period of time in use.
- Refer to the table of 2-2-3.

2. CLEANING AND LUBRICATION

A. Cleaning of Tape Transporting section and Driving section

a. Cleaning of Tape Transporting section

- The following parts should be cleaned after every 500 hours of use.
  - TENSION POLE
  - AC HEAD/AE HEAD
  - VIDEO HEAD/DRUM
  - FE HEAD
  - CAPSTAN SHAFT
  - T GUIDE ROLLER
  - VERTICAL POST
  - S SLANT POLE
  - S GUIDE POST
  - T GUIDE POST
  - T SLANT POLE
  - S GUIDE ROLLER
  - PINCH ROLLER
- As the above parts contact with the video tape, they tend to collect dust particles. If they are stained with dust or foreign substance it has a bad effect on the picture and may lead to damage of the tape.
- After cleaning with alcohol, allow the parts to dry thoroughly before using a cassette tape.

b. Cleaning of Driving section

- REEL TABLE
- CAPSTAN FLYWHEEL/PULLEY
- REEL PULLEY

B. LUBRICATION

- S REEL POST
- T REEL TABLE POST
- REEL GEAR POST

- After cleaning these parts with alcohol, lubricate these with one or two drops of oil.

SERVICE SCHEDULE FOR THE MAJOR PARTS

SERVICE SCHEDULE FOR THE MAJOR PARTS

The following parts should receive periodic service, according to the recommended intervals.

NAME	PERIODIC SERVICE (TIME)				
	1000	2000	3000	4000	5000
DRUM TOTAL ASS'Y	★	◎	★	◎	★
CAPSTAN MOTOR		◎		◎	
L/C BRKT TOTAL ASS'Y		◎		◎	
REEL BELT		◎		◎	
IDLER PLATE TOTAL ASS'Y		◎		◎	
REEL TABLE			◎		
TENSION BAND ASS'Y		◎	◎	◎	
S, T BRAKE ASS'Y		◎		◎	
PINCH ROLLER ASS'Y		★	◎	★	
AC HEAD ASS'Y			◎		
FE HEAD					◎
REEL GEAR TOTAL ASS'Y		◎		◎	

★ : Check and Replace if necessary. ◎ : Replace

Note: Even though the unit is not used frequently, cleaning, lubrication and replacement of the belt should be undertaken every 2 years.

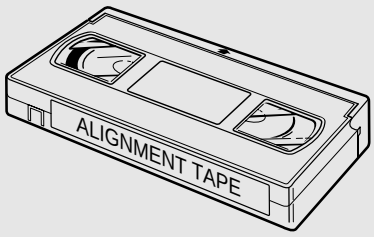
JIGS AND TOOLS

1. List of Jigs and Tools

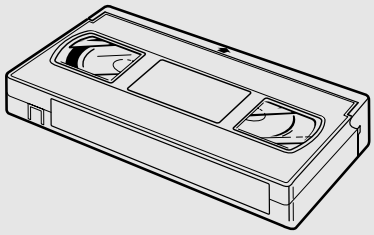
NO	ITEMS	MODEL	FIG. NO	REMARKS
1	ALIGNMENT TAPE	NTSC: SP MONOSCOPE 7KHz SP COLORBAR 1KHz (EP MONOSCOPE) PAL/SCAM: SP MONOSCOPE 6KHz SP COLORBAR 1KHz (LP MONOSCOPE)	①	CHECKING OF THE TAPE TRANSPORTING SYSTEM
2	CLEANING TAPE (DAEWOO)	DHC-602V	②	CHECKING OF THE TAPE TRANSPORTING SYSTEM
3	CASSETTE TAPE (KOKUSAI)	KT-300NV KT-300RV	③	MEASUREMENT OF REEL TORQUE
4	VHS SPINDLE HEIGHT GAUGE	TSH-V4	④	MEASUREMENT OF REEL HEIGHT
5	TENTELO METER (TENTELO)	T2-H7-UM	⑤	MEASUREMENT OF THE BACK TENSION
6	FAN TYPE TENSION METER	BELOW 3KG	⑥	MEASUREMENT OF THE PRESSING FORCE FOR THE PINCH ROLLER
7	DENTAL MIRROR		⑦	CHECKING OF THE TAPE TRANSPORTING SYSTEM
8	+DRIVER		⑧-1	ASSEMBLY, DISASSEMBLY AND ADJUSTMENT
	ADJUSTMENT DR IVER		⑧-2	

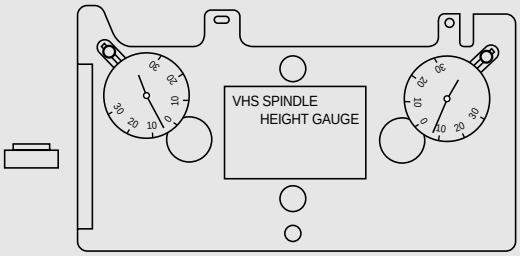
JIGS AND TOOLS(CONTINUED)

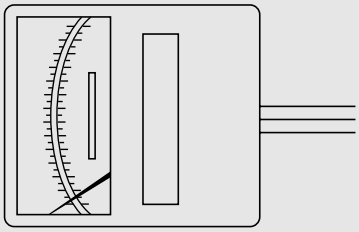
2. Sketch of Jigs and Tools

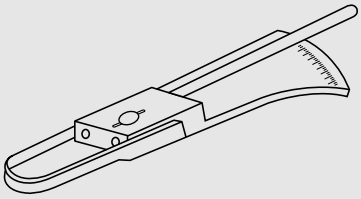
① 

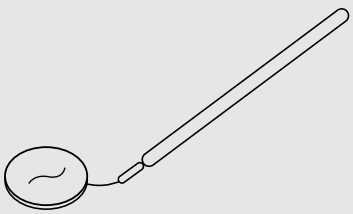
②

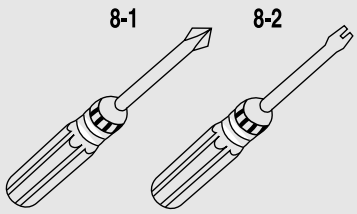
③ 

④ 

⑤ 

⑥ 

⑦ 

⑧ 

DEASSEMBLY AND REPLACEMENT

1. Removal of the FRONT LOADING Ass'y (Fig. 3.1)

NOTE:
Remove the FRONT LOADING Ass'y in eject mode.

a. Unscrew the 2 screw holding the F/L.

b. Separate the F/L Ass'y from the MAINBASE settling down point by lifting the rear part of F/L (Screw Hole).

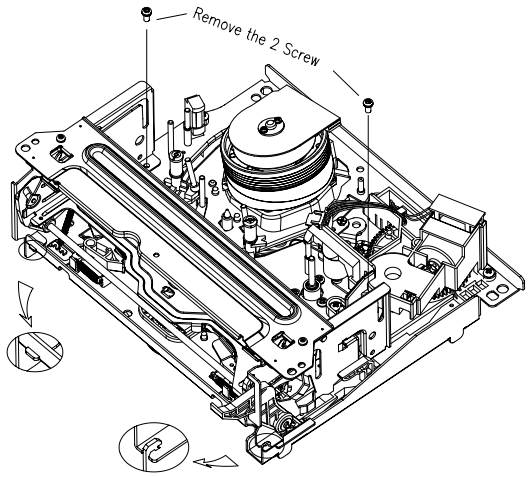


Fig. 3.1 Removal of the FRONT LOADING Ass'y

2. Deassembly of FRONT LOADING Ass'y (FIg. 3.2~3.5)

a. Remove the 1 washer for holding the door opener and separate F/L Assembly by moving the DOOR OPENER in the direction of arrow.

b. Remove the 2 screw holding the TOP PLATE and separate the CASSETTE HOLDER Ass'y by moving the FL BRKT L and FL BRKT R in the direction of arrow. (Fig. 3.2)

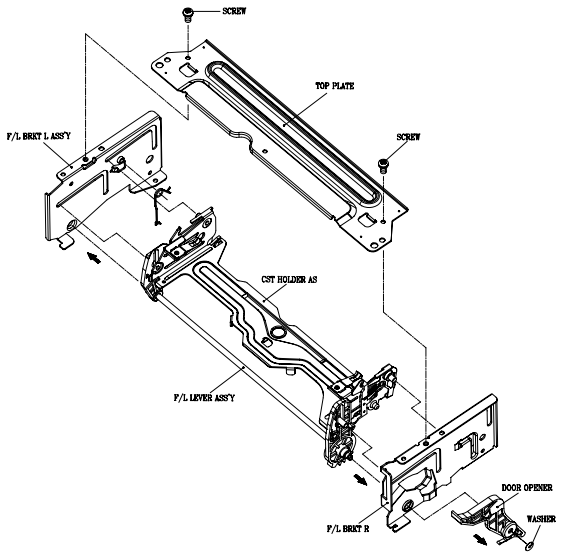


FIg. 3.2 Deassembly of the FRONT LOADING Ass'y

c. Separate the FL LIFT SPRING by twisting and dragging from FL BRKT R. (Fig. 3.3)

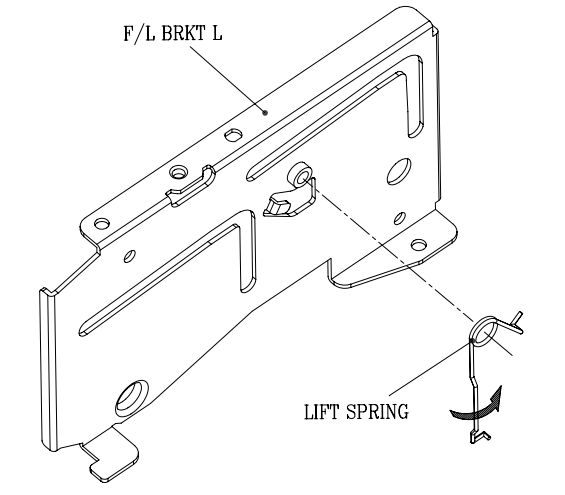


FIg. 3.3 Deassembly of the FL BRKT Ass'y

DEASSEMBLY AND REPLACEMENT (CONTINUED)

d. Separate the LOADING LEVER Ass'y by pressing the connection point from the CASSETTE HOLDER Ass'y. (Fig. 3.4)

e. Remove the SAFETY SPRING connecting the SAFETY LEVER and CASSTTE HOLDER PLATE. (Fig. 3.4)

f. Remove the RELEASE SPRING connecting the RELEASE LEVER and SAFETY LEVER. (Fig. 3.4)

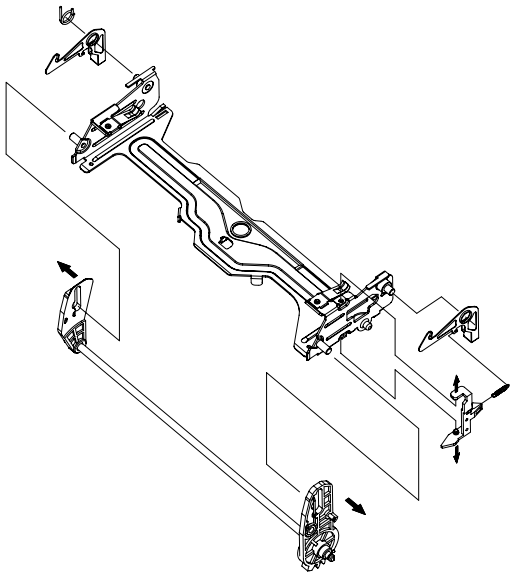


FIg. 3.4 Deassembly of the CASSETTE HOLDER Ass'y

CAUTION:

- Assemble the FRONT LOADING Ass'y in the reverse step of deassembly.
- Confirm that 2 bosses on the left side of the CASSETTE HOLDER Ass'y are inserted in the groove on the left side of the top plate. Insert 2 bosses on the right side of the CASSETTE HOLDER Ass'y into the groove of the F/L BRACKET R. (Fig. 3.5)

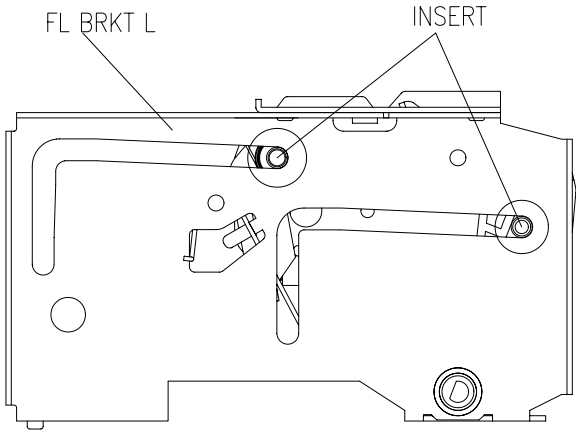


FIg. 3.5 Assembly of the FL Ass'y

3. Deassembly of DRUM Ass'y (Fig. 3.6)

a. Turn over the DECK MECHANISM and holding the DRUM TOTAL Ass'y ② with hands, remove the 3 screw holding the drum total assembly with mainbase.

b. Separate the DRUM TOTAL Ass'y from the deck paying attention there is no damage on the surface of VIDEO HEAD and DRUM.

c. Assembly step is the reverse way of deassembly.

CAUTION:

- After the assembly of the DRUM TOTAL Ass'y, check out if DECK Mechanism operate smoothly and adjustment of tape transmission section is OK.

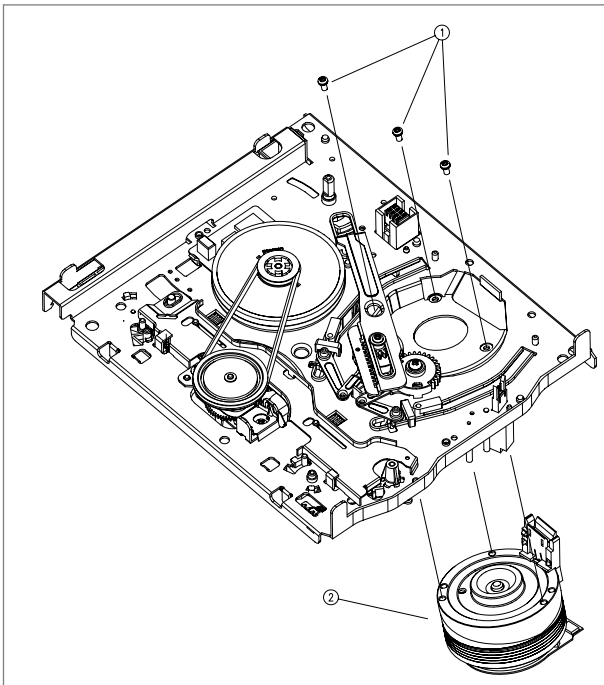


FIg. 3.6 Assembly of the DRUM TOTAL Ass'y

DEASSEMBLY AND REPLACEMENT (CONTINUED)

4. Deassembly of LOADING RACK, LOADING ASS'Y, S/T SLANT POLE ASS'Y (Fig. 3.7, 3.8)

a. Turn out the DECK MECHANISM and remove the LOADING RACK② after unscrewing the SCREW ①.

b. Disintegrate the R LOADING AS ③ and L LOADING AS ④.

c. Disintegrate the S SLANT POLE AS ⑤ and T SLANT POLE AS ⑥ by moving those part in arrow direction.

CAUTION:

- Take care GUIDE ROLLER of S/T SLANT POLE AS and SLANT POLE not to be stained with grease during assembly.
- Refer to Fig. 3.8 in assembly.

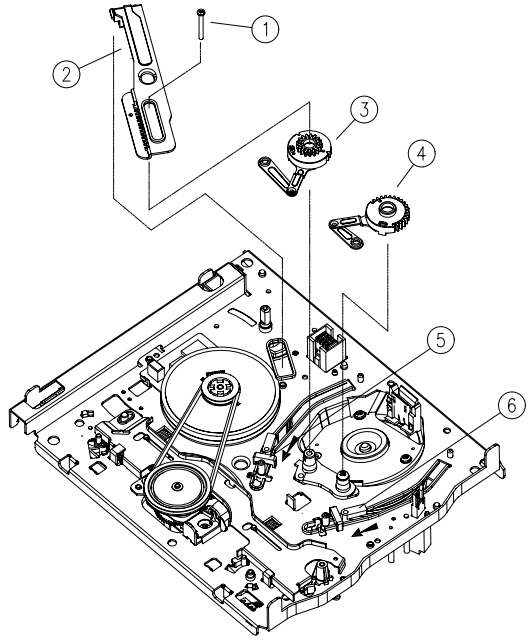


FIg. 3.7 Deassembly of the LOADING RACK, LOADING ASS'Y and the SLANT POLE ASS'Y

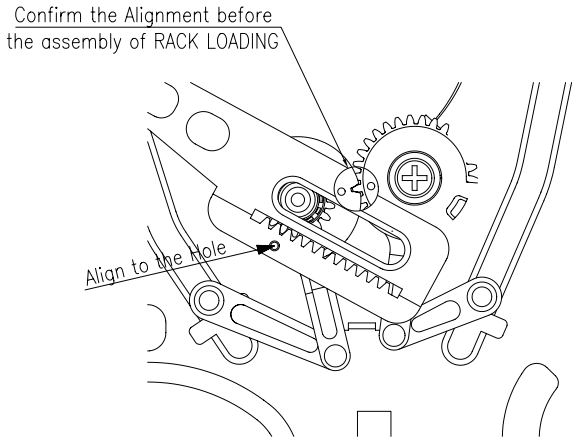


FIg. 3.8 Assembly of the L/R LOADING AS and the LOADING RACK

5. Deassembly of the A/C HEAD ASS'Y (Fig. 3.9)

a. Remove the CONNECTOR ② from the AC HEAD Ass'y, watch out that there is no damage in the HEAD connecting PIN.

b. Separate the AC HEAD Ass'y ① after unscrewing the screw ③.

CAUTION:

- After the assembly, adjust the tape transmission section by refering to the chapter 5.
- After the adjustment of the tape transmission section, paint the 3 adjustment screw with locking paint.

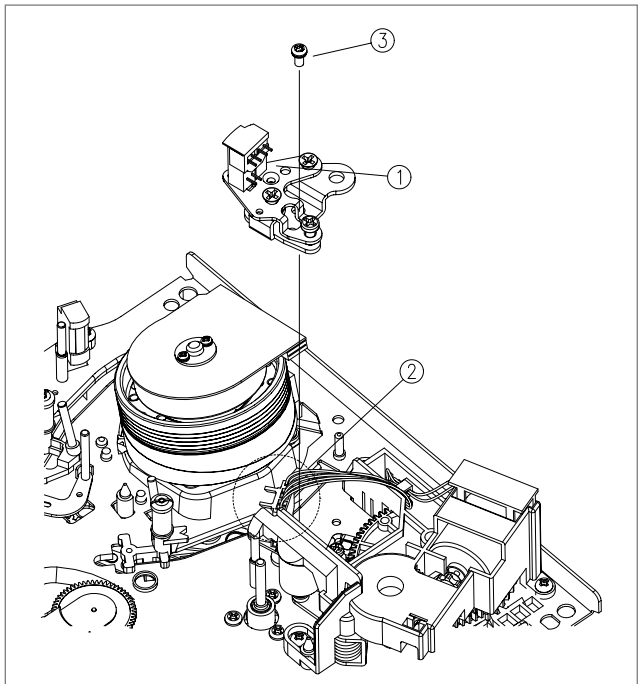


FIg. 3.9 Deassembly of the AC HEAD ASS'Y

DEASSEMBLY AND REPLACEMENT (CONTINUED)

6. Deassembly of the LC BRKT ASS'Y, PINCH LEVER TOTAL ASS'Y (Fig. 3.10)

a. Separate the LC BRKT Ass'y ② after removing the 3 screw ①.

b. Separate the LC BRKT Ass'y ② from the DECK MECHANISM.

c. Disintegrate the PINCH LEVER TOTAL Ass'y ③.

CAUTION:

- After the assembly of the PINCH LEVER TOTAL Ass'y, adjust the tape transmission section by refering to the chapter 5.
- There should be no pollution on the surface of PINCH ROLLER ④ with grease or other foreign material.
- Make sure if the end of the PINCH SPRING PINCH "A" is located at the end of trajectory of CAM GEAR "B" in assembly. (Refer to Fig. 4.3)

7. Deassembly of the CAM GEAR, RELAY LEVER, FL RACK (Fig. 3.10)

a. Separate the CAM GEAR ⑤ from the MAINBASE.

b. Separate the RELAY LEVER ⑥ from the MAINBASE.

c. Separate the FL RACK ⑦ from MAINBASE by moving to the arrow direction.

CAUTION:

- When reassembling, refer to Fig. 3.11, Fig. 3.12 and chapter 4.

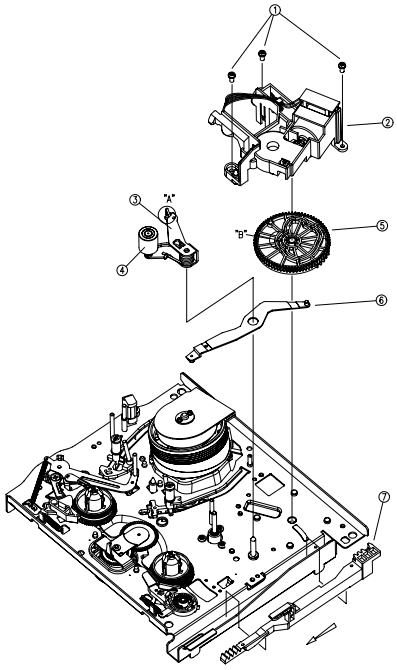


FIg. 3.10 Deassembly of the LC BRACKET ASS'Y from the PINCH LEVER TOTAL ASS'Y

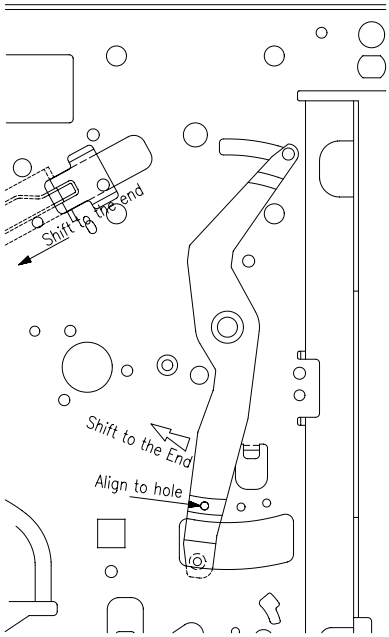


FIg. 3.11 Assembly of the CAM GEAR, RELAY LEVER

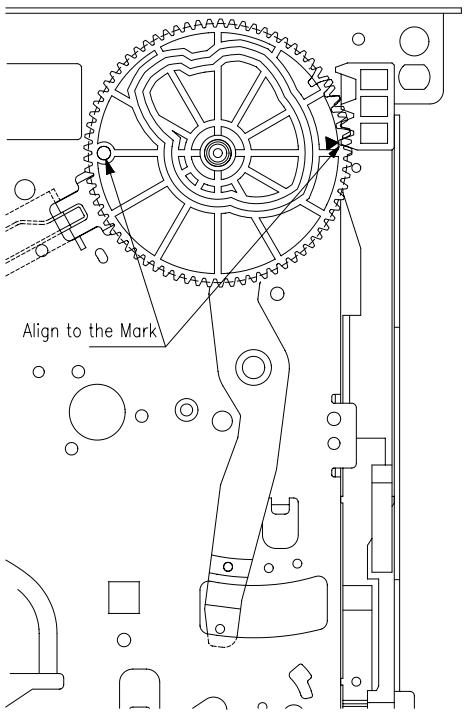


FIg. 3.12 Assembly of the CAM GEAR, FL RACK

DEASSEMBLY AND REPLACEMENT (CONTINUED)

8. Deassembly of the S/T BRAKE ASS'Y (Fig. 3.13)

a. Unhook the S BRAKE SPRING ③ from the MAIN-BASE HOOK ①.

b. Remove the S BRAKE Ass'y ② from the mainbase.

c. Remove the T BRAKE SPRING ⑥ from the MAIN-BASE HOOK ④.

d. Remove the T BRAKE Ass'y ⑤.

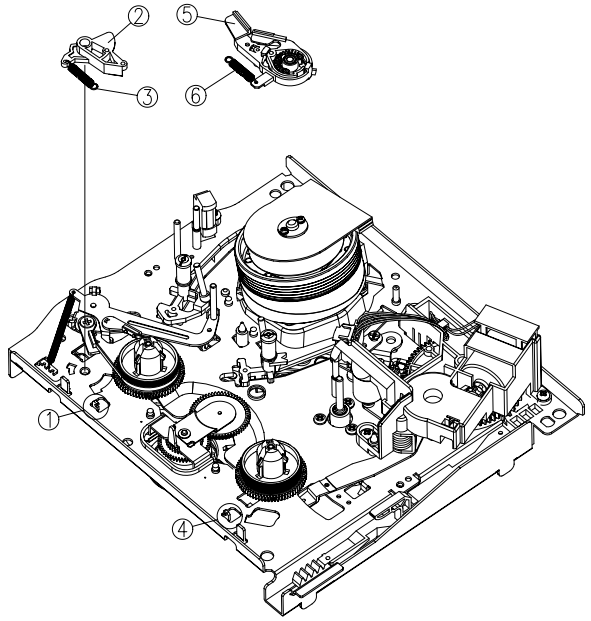


FIg. 3.13 Deassembly of the S/T BRAKE ASS'Y

9. Deassembly of the TENSION BAND ASS'Y (Fig. 3.14)

a. Unhook the TENSION SPRING ② from the MAIN-BASE HOOK ①.

b. Unhook the MAINBASE HOOK "A" and remove the TENSION BAND Ass'y ③ from the mainbase.

CAUTION:

- After the assembly of TENSION BAND Ass'y on the mainbase, adjust the TENSION POLE location as shown in Fig. 3.15.
- Avoid getting Grease, Oil or Foreign substance on the FELT of the BAND BRAKE.
- Take care not to deform the MAINBASE HOOK "A" when separating the TENSION BAND Ass'y ③.

10.Deassembly of the Capstan Motor (Fig. 3.14)

a. Separate the CAPSTAN MOTOR ⑤ after the removal of 3 screw ④ holding the capstan motor.

11. Deassembly of the FE HEAD (Fig. 3.14)

a. Unscrew the screw ⑥ and separate the FE HEAD ⑦ from the MAINBASE.

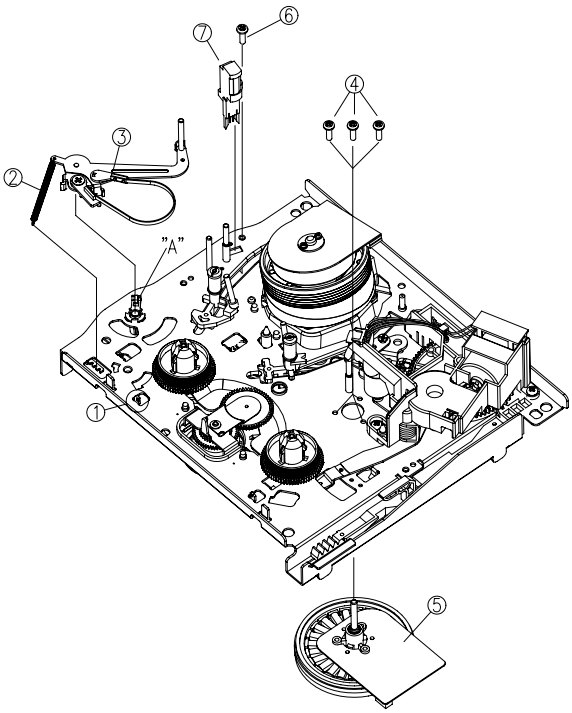


FIg. 3.14 Deassembly of the TENSION BAND ASS'Y, CAPSTAN MOTOR and the FE HEAD

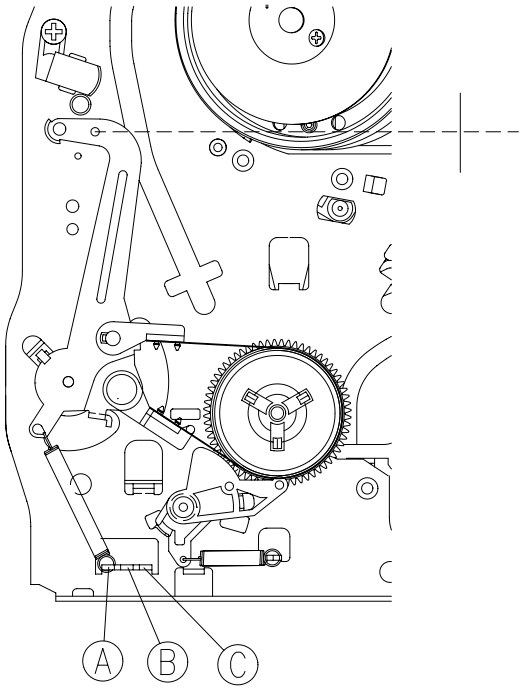


FIg. 3.15 Adjustment of the TENSION POLE POSITION

DEASSEMBLY AND REPLACEMENT (CONTINUED)

12. Deassembly of the REEL TABLE, IDLER PLATE TOTAL ASS'Y (Fig. 3.16)

a. Remove the POLY WASHER ① and separate the IDLER PLATE TOTAL Ass'y ② from the mainbase.

b. Remove the REEL TABLE ④ from the REEL TABLE POST ③ of the MAINBASE.

CAUTION:

• Take care not to deform the IDLER PLATE TOTAL Ass'y ② when assembling and deassembling.

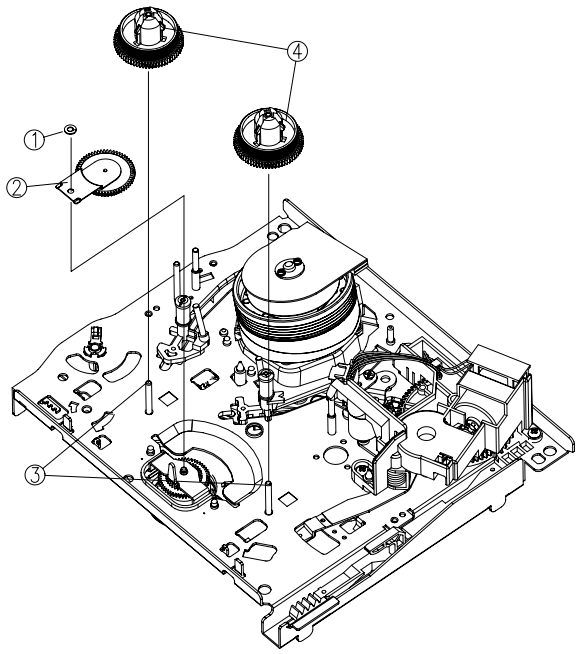


FIg. 3.16 Deassembly of the REEL TABLE and the IDLER PLATE TOTAL ASS'Y

13. Deassembly of the REEL BRKT TOTAL ASS'Y, CONNECT PLATE (Fig. 3.17)

a. Turn over the DECK MECHANISM and remove the 2 screw ①.

b. Remove the REEL BRKT TOTAL Ass'y ② from the MAINBASE.

c. Separate the CONNECT PLATE ③ from the MAIN-BASE by pushing to the direction of the arrow.

CAUTION:

• In deassembly of the REEL BRKT TOTAL Ass'y, take care REEL BELT and REEL FELT not to be stained with Grease, Oil or Foreign substance.

• Deassembly of the IDLER Ass'y should be precede the deassembly of the REEL BRKT TOTAL Ass'y.

• Check the operation of the REEL BRKT TOTAL Ass'y before assembly.

• Check the operation of FF/REW, PLAY, CUE and REVIEW work well and existence of noise during the mode operation.

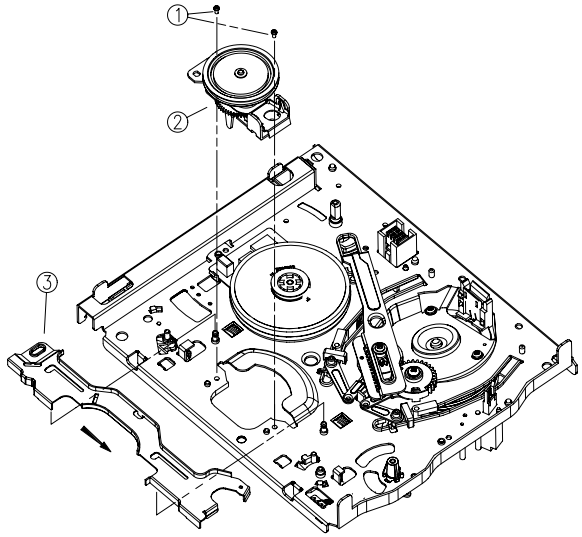


FIg. 3.17 Deassembly of the REEL BRKT TOTAL ASS'Y and the CONNECT PLATE

MECHANICAL ADJUSTMENT

1. Mechanical Adjustment (Fig. 4.1~4.4)

In case of deassembly and reassembly for fixing the mechanical problem, check the following check point.

a. Make sure that the DATUM HOLE of the CAM GEAR is aligned with the DATUM HOLE in the MAINBASE in the EJECT mode as shown in Fig. 4.1.

b. Make sure that the ending part "A" of the RELAY LEVER assembled on the CONNECT PLATE is aligned with the reference hole "B" of the MAINBASE as shown in Fig. 4.2.

c. The end point "A" of PINCH SPRINGPING of the LEVER TOTAL Ass'y should be located within the trajectory "B" of the CAM GEAR. (Fig. 4.3)

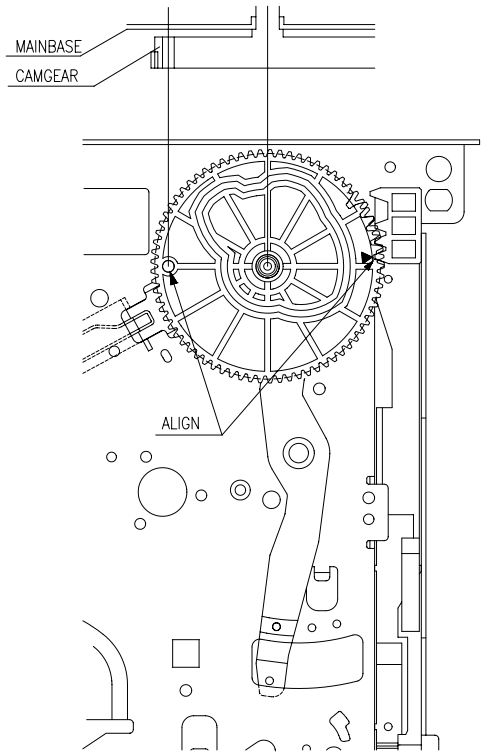


FIg. 4.1 Assembly reference between the FL RACK and the CAM GEAR

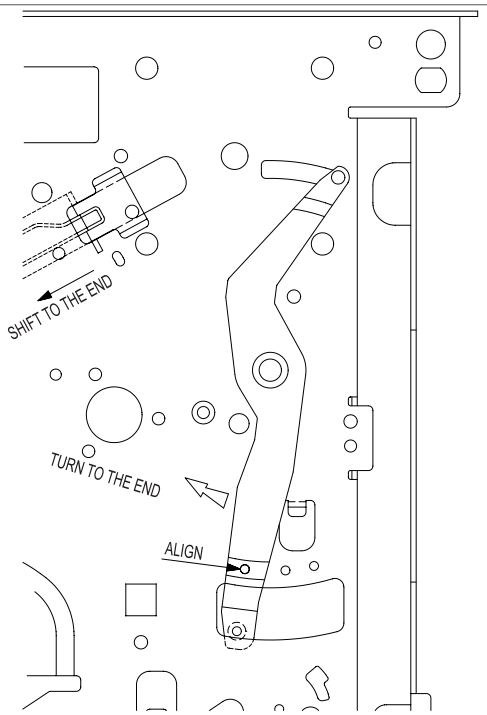


FIg. 4.2 Assembly reference between the RELAY LEVER and the CAM GEAR

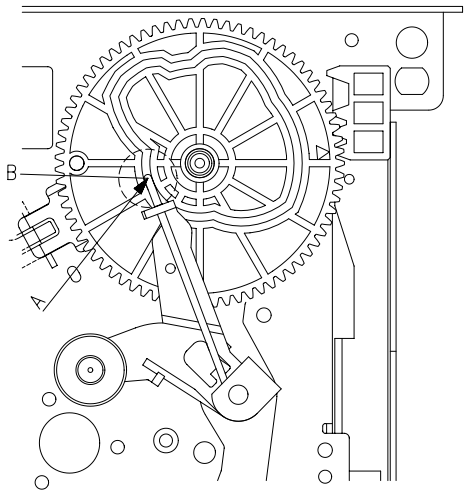


FIg. 4.3 Assembly reference of the PINCH LEVER TOTAL ASS'Ywith the CAM GEAR

MECHANICAL ADJUSTMENT (CONTINUED)

d. Make sure that the triangular mark “A” of the L LOADING Ass’y is aligned with the mark “b” of the R LOADING Ass’y. (Fig. 4.4)

e. Reference hole “C” of the LOADING RACK should be aligned with the reference hole of the R LOADING Ass’y to make the teeth of the LOADING RACK is aligned as shown in Fig. 4.4.

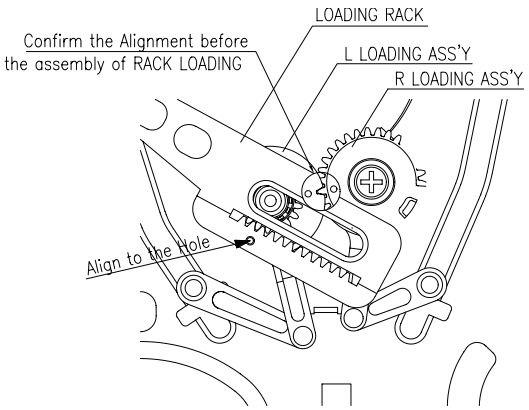


FIg. 4.4 Assembly reference between the LOADING RACK and the LOADING LEVER ASS’Y

2. Adjustment and measurement of the BACK TENSION (Fig. 4.5, 4.6)

a. Check that the location of the TENSION POLE is in the right position. If not, adjust that by refering to the “4. Adjustment of the position of the TENSION POLE”.

b. Playback the T-120 Tape in S-MAX for 20 seconds. (Generally tape transporting section is settled down in 20 seconds)

c. Measure the BACK TENSION by using the TENTELO METER. (Refer to Fig. 4.5) The result should be within the range of 20g~30g.

d. If the BACK TENSION is out of the range, change the position of the TENSION SPRING of repeat the process of “4. Adjustment of the position of the TENSION POLE”. (Fig. 4.6)

CAUTION:

- If the measurement result greater than the upper limit, change the hook point of the spring to the “A”.
- Confirm that all of the three probes of TENSION meter are in contact with the tape.
- During measuring, don’t touch any other parts of the MECHANISM(i.e, MAINBASE). It is recommended that this measurement be repeated at least three times for an accurate reading.

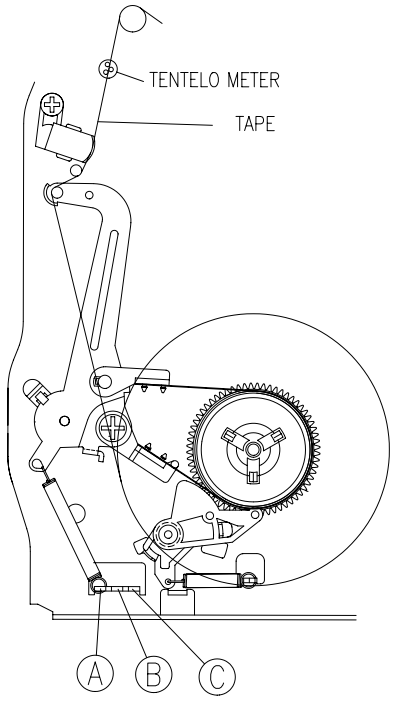


FIg. 4.5 Measurement of the BACK TENSION

MECHANICAL ADJUSTMENT (CONTINUED)

3. Mechanical Mode (Operate without a cassette tape)

a. Remove the FRONT LOADING Mechanism from the DECK Mechanism.

b. Cap the IR LED and pull the FL RACK. This has the same effect with cassette loading to the deck.

c. If the S/T POLE BASE is loaded, Play mode starts automatically. If you want other function, press the corresponding button.

d. Turn off the poser when the Mechanism is in the desired position.

4. Adjustment of the position of the TENSION POLE (Fig. 4.6)

a. Place the Mechanical mode in the play mode. Refer to the above section “3. Mechanical mode”.

b. Confirm that the TENSION LEVER is aligned with the datum hole of the MAINBASE.

c. If the requirement “b” is not satisfied, turn the BAND BRAKE ADJUST CAP clockwise or counterclockwise until the two datum holes alignes with each other.

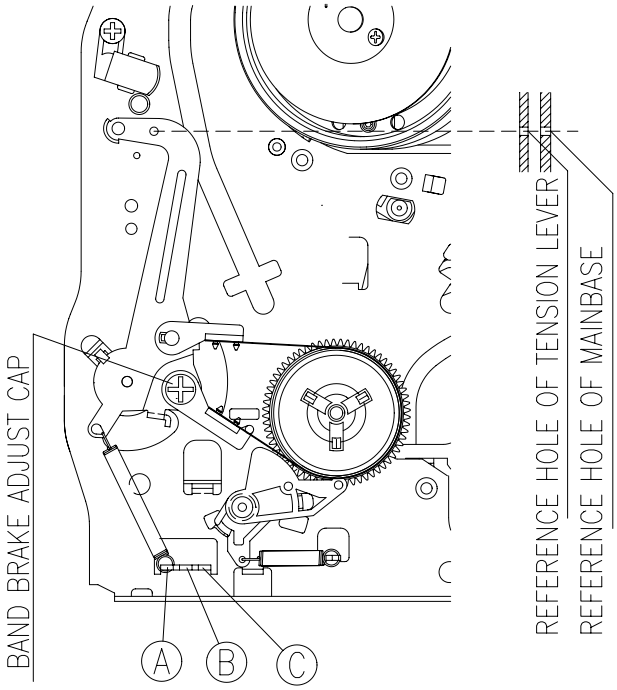
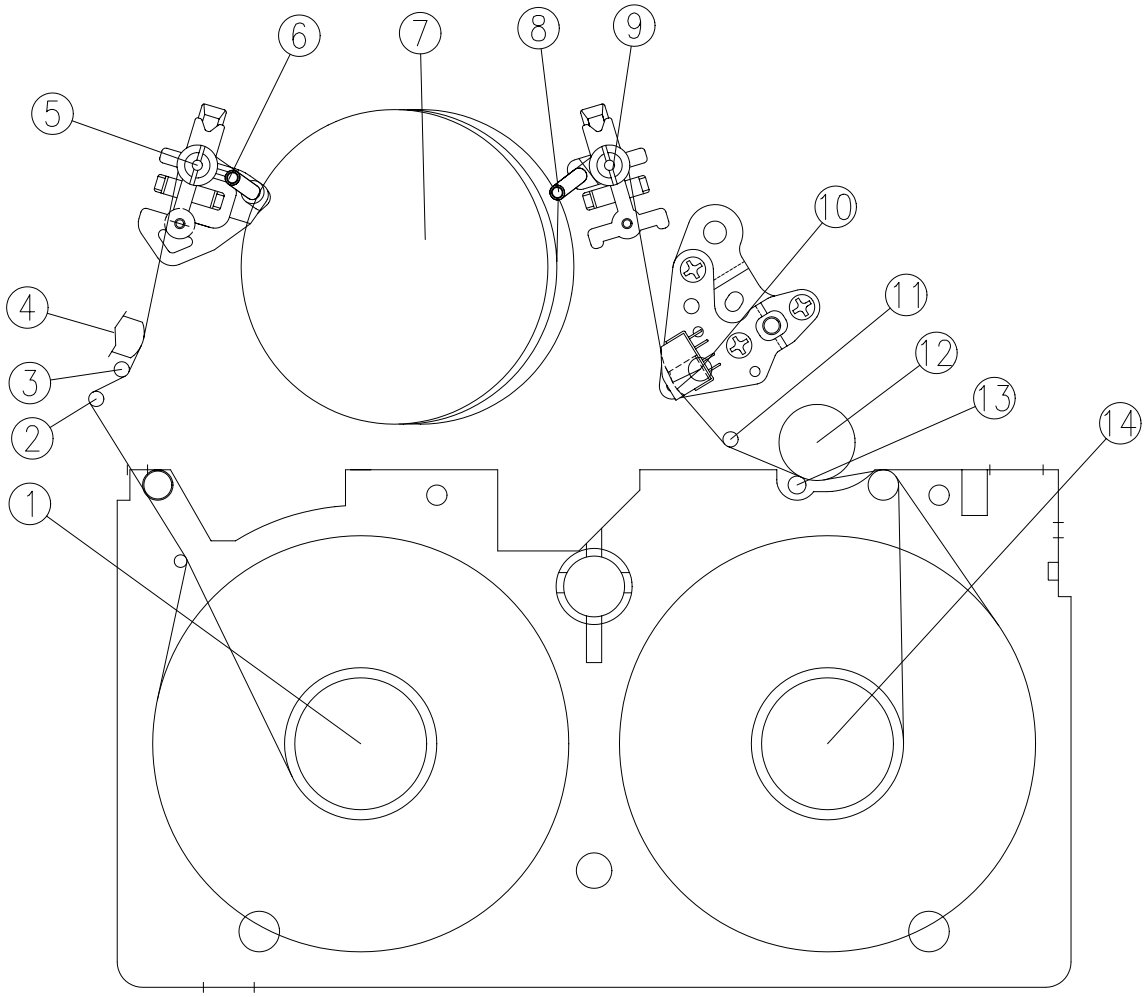


FIg. 4.6 Adjustment of the TENSION POLE

ADJUSTMENT OF THE TPAE TRANSPORTING SECTION.

Generally, tape transporting section has been precisely adjusted in the factory and does not require the ordinary readjustment. But there is the case that tape noise or impact on the deck mechanise, tape transporting section readjustment is required, in adjustment of the tape tranmission section consut the following flow chart.



NO.	NAME	NO.	NAME
1	S REEL	8	T SLANT POLE
2	TENSION POLE	9	T GUIDE ROLLER
3	S GUIDE POST	10	ACE HEAD
4	FE HEAD	11	T GUIDE POST
5	S GUIDE ROLLER	12	PINCH ROLLER
6	S SLANT POLE	13	CAPSTAN SHAFT
7	DRUM	14	T REEL

FIg.5.1 A schematic diagram of the tape transporting section

If any components shown in Fig. 5.1, tape transporting section will be changed. To readjust the change of tape transporting section, keep in mind and follow the following check points.

ADJUSTMENT OF THE TPAE TRANSPORTING SYSTEM

Generally the TAPE TRANSPORTING SYSTEM has been precisely adjusted in the factory and does not ordinarily require readjustment. But when noise and tape damage take place and part assemblies that compose the TAPE TRANSPORTING SYSTEM are replaced, check and readjust the TAPE TRANSPORTING SYSTEM. Refer to the following FLOW CHART in order to adjust the TAPE TRANSPORTING SYSTEM.

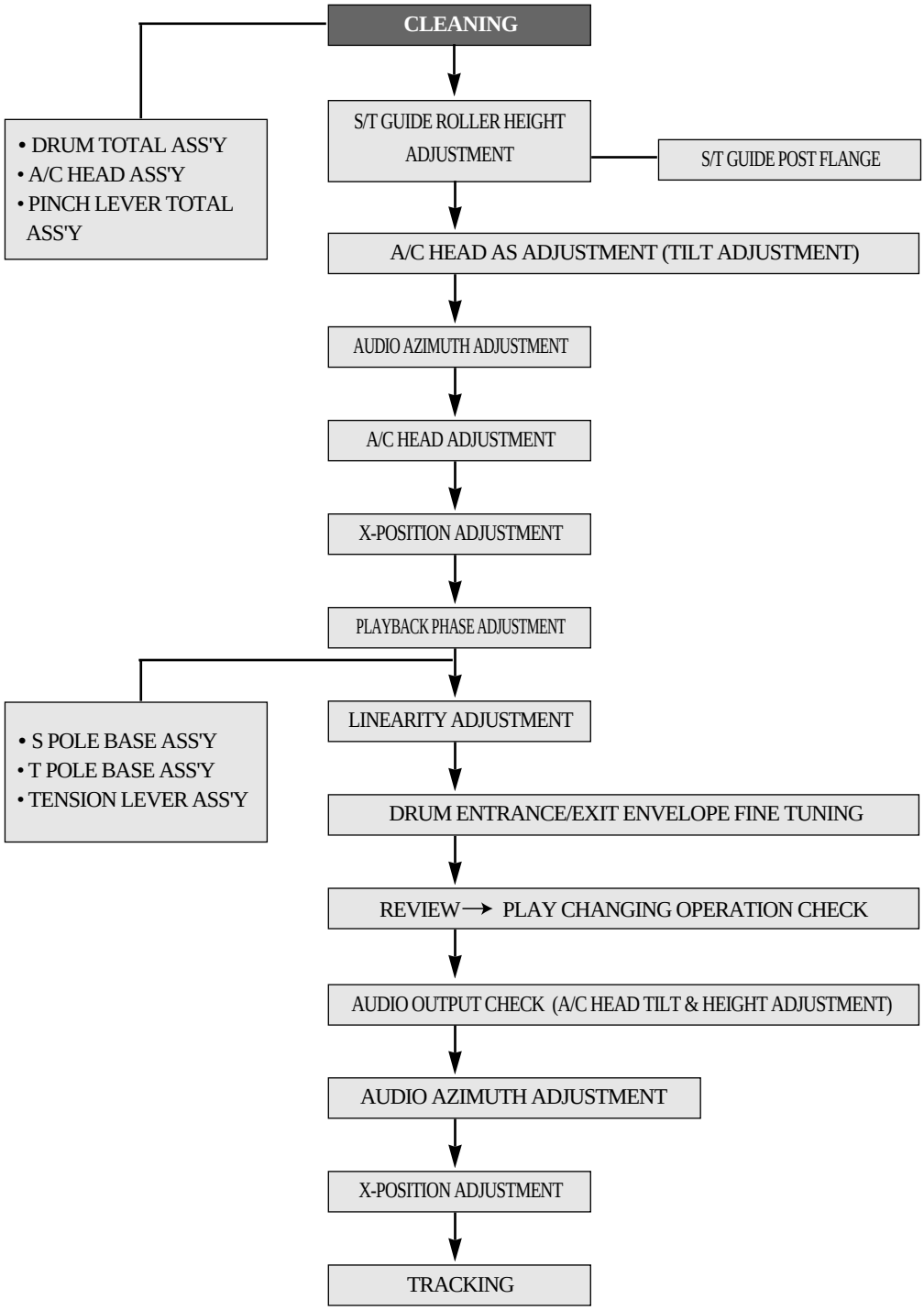


Table.1 ADJUSTMENT FLOW DIAGRAM OF THE TAPE TRANSPORTING SYSTEM

ADJUSTMENT OF THE TPAE TRANSPORTING SECTION. (CONTINUED)

A. Adjustment of the S/T GUIDE ROLLER

a. Check the Playing back with a T-120 TAPE.

b. Make sure that excessive tape wrinkle does not occure at eatch S.T GUIDE ROLLER.

c. If tape wrinkle is observed at the S/T GUIDE ROLLER, turn the guide roller screw until there is not tape wrinkle.

B. Adjustment of the AC HEAD ASS'Y(TILT)

a. Play back a T-120 TAPE and check the running status of lower side of GUIDE POST.

b. If there is any problem, Turn the AC HEAD TILT SCREW until the running status improved (Fig. 5.2)

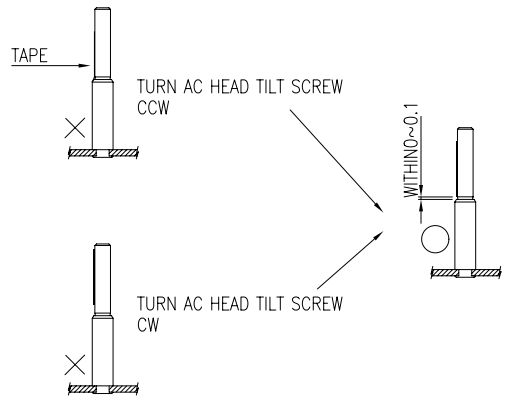


FIg.5.2 Adjustment of the AC HEAD ASS'Y

C. Adjustment of the AC HEAD Height(Fig. 5.3)

a. Play back T-120 TAPE.

b. Make sure that the gap between the lower end of AC head is 0.25m.

c. If the measurement of the gap is different from the reference value 0.25m, turn the screw ①,③ until the desired gap is obtained.

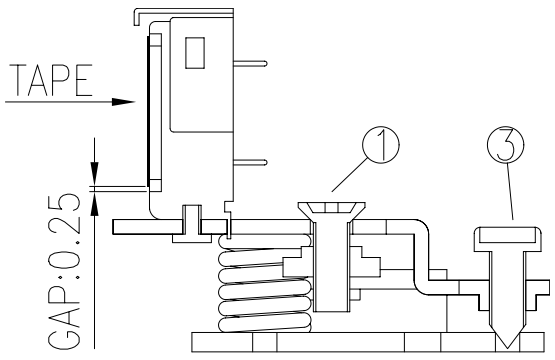


FIg.5.3 Adjustment of X-POSITION

D. Adjustment of the AUDIO AZIMUTH(Fig. 5.4)

a. Play back the ALIGNMENT TAPE
(DN2 : SP, NTSC,7KHz)

b. Check the AUDIO output with a AUDIO LEVEL METER.

c. Turn the AC HEAD AZIMUTH SCREW ② until the maximum AUDIO output(-9dBm ~ -3dBm)is obtained.

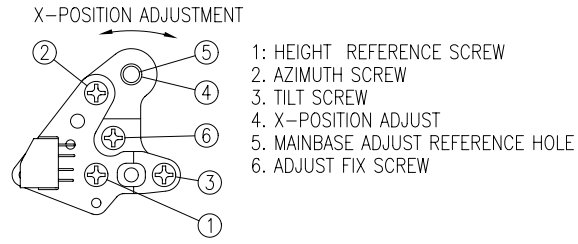


FIg.5.4 Adjustment of AUDIO AZIMUTH, X-POSITION

E. Adjustment of the X-POSITION(Fig. 5.4 5.5)

a. Connect the PATH ADJ. FIXTURE to the PT01 on the MAIN CIRCUIT BOARD.

b. Play back theALIGNMENT TAPE
(DN2 : SP MONOSCOPE).

c. Connect the S/W pin and ENVE pin of the PATH ADJ. FIXTURE with the SCOPE PROBE.

d. Insert the adjustment bar in the AC HEAD ADJUST hole ④ and adjust the X-POSITION of the AC HEAD ASS'Y until the ENVE is maximum when the VR is on the CENTER.

* Three is the possibility that an another TRACKING CENTER can be occur when the AC HEAD ASS'Y turned completely in the counterclockwise direction, Hence adjust the X-position with AC HEAD ASS'Y adhering closely to the right side until the maximum ENVE is obtained.

e. The adjustment of the X-POSITION finished, check if the AUDIO LEVEL is degraded, then readjustment of the AUDIO AZIMUTH is required.

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	AC HEAD ADJUST HOLE	ADJUSTMENT BAR

ADJUSTMENT OF THE TPAE TRANSPORTING SECTION. (CONTINUED)

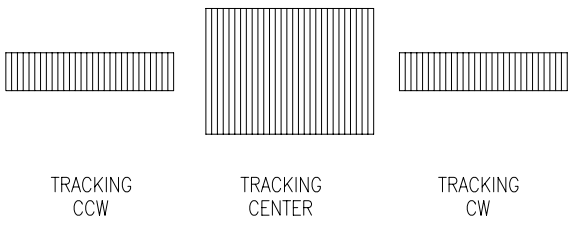


FIg.5.5 Adjustment of the X-POSITION

F. PLAYBACK PHASE ADJUSTMENT(Fig. 5.6)

Test Point	S/W PULSE TEST PIN	MAIN CIRCUTE BOARD
	ENVELOPE TEST PIN	MAIN CIRCUTE BOARD
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR 595(PG SHIFTER)	MAIN CIRCUTE BOARD

PHASE GENERATOR(PG) SHIFTER determine the VIDEO HEAD SWITCHING POINT when the TAPE is played back.

If an adjustment of the PHASE GENERATOR(PG) SHIFTER is not doneprecisely, There can be a HEAD SWITCHING NOISE or a VERTICAL JITTER problem, vibration of the picture on the screen, not good quality of picture in special play back.

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ. FIXTURE.
b. Play back an ALIGNMENT TAPE (DN-2 : MON-SCOPE).
c. Connect the S/W PULSE TEST PIN on the PATH ADJ.FIXTURE with a CHANNEL-1 SCOPE PROBE.
d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE(1V/div).
e. Control thePG VOLUME until the time interval between the SWITCHING PULSE and the V-SYNC SIGNAL is sithin the 6.5±0.5H as shown in fig. 5.6

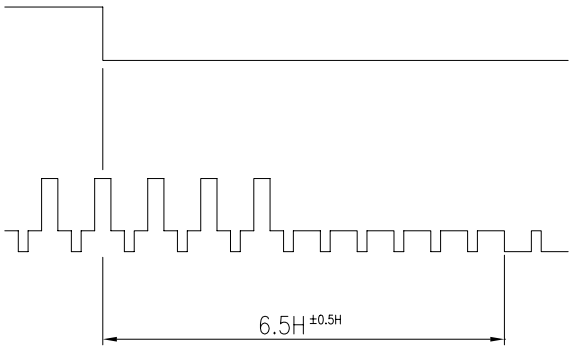


Fig.5.6

G.Adjustment of the LINEARITY(Fig. 5.7)

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GHIDE ROLLER	TAPE TRANSMISSON SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.
b. Play back an ALIGNMENT TAPE (DN-2 : MONOSCOPE Signal).
c. Connect the FIXTURE S/W PULSE TEST PIN on the PATH ADJ. CHANNEL-1 SCOPE PROBE.
d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE.(1V/div).
e. Adjust the VR CONTROL on the ADJ. FIXTURE until the ENVELOPE signal is maximum while play back the ALIGNMENET TAPE.
f. Adjust the S/T GUIDE ROLLER until the envelope signal waveforms of the entrance and exit sides are as shown in Fig. 5-7.

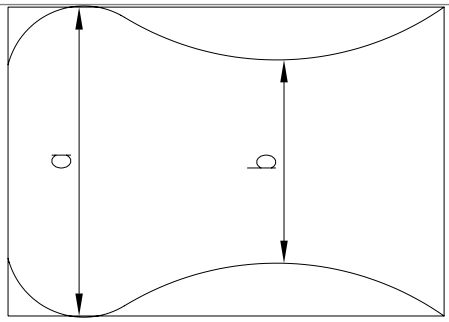


FIg.5.7 Adjustment of Linearity

ADJUSTMENT OF THE TPAE TRANSPORTING SECTION. (CONTINUED)

H. Adjustment of the wave form of DRUM Entrance / Exit (Fig. 5.8)

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GHIDE ROLLER	TAPE TRANSMISSON SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MONO-SCOPE signal)

c. Connect the S/W PULSE TEST PIN on the PATH ADJ. FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE(1V/div).

e. Turn the VR CONTROL on the PATH ADJ.FIXTURE clockwise or counterclockwise until the signal shape of ENVELOPE has the constant thickness.(Fig.5.8)

f. Adjust the S/T GUIDE ROLLER if the thickness of the ENVELOPE signal is not uniform.

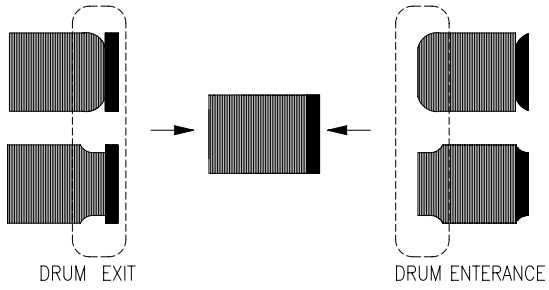


FIg.5.8 Fine adjustment of the ENVELOPE at the DRUM ENTRANCE/EXIT

I. REVIEW ⇔ PLAY(Fig. 5.9)

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GHIDE ROLLER	TAPE TRANSMISSON SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2 : MONO-SCOPE signal)

c. Connect the S/W PULSE TEST PIN on the PATH ADJ.FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE(1V/div).

e. Make the VR CONTROL on the PATH ADJ.FIXTURE to the center to maximize the ENVELOPE signal.

f. Play back the REVIEW MODE about 15 secong and alter the mode to PLAY MODE.

g. Check whether the ENVELOPE waveform restore to its original form within 3 second when the REVIEW mode is changed to PLAY mode.

h. If the requirement of “g” is not satisfied, Check the running status of tape on the lower part of T GUIDE POST and adjust the S/T GUIDE ROLLER precisely.

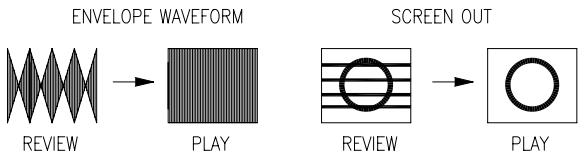


FIg.5.9 Waveform change when the mode altered (REVIEW ↔PLAY)

J. Checking for the J.AUDIO output waveform (Adjustment of AC HEAD TILT & Height)

Test Point	AUDIO OUTPUT	AUDIO OUTPUT JACK
Measurement Equipment	AUDIO LEVEL METER	

a. Connect the AUDIO output jack with an AUDIO LEVEL METER.

b. Playback an Alignment Tape (DN-1:Color Bar 1KHz Signal)

c. Check if the AUDIO output signal level is over -9~-3dBm.

d. If the requirement of “c” is not satisfied, readjust the AC HEAD TILT and the HEIGHT until the AUDIO output is maximized. (Fig. 5.2, 5.3)

ADJUSTMENT OF THE TPAE TRANSPORTING SECTION. (CONTINUED)

K.Adjustment of the AUDIO AZIMUTH

Test Point	AUDIO OUTPUT	AUDIO OUTPUT JACK
Measurement Equipment	AUDIO LEVEL METER	

a. Connect the AUDIO output JACK with an AUDIO LEVEL METER.

b. Play back the ALIGNMENT TAPE(DN-2:MONO-SCOPE 7KHz Signal).

c. Check if the AUDIO output signal level is over : -9 ~-3dBm.

d. If the requirement of "c" is not satisfied, readjust the AZIMUTH SCREW of the AC HEAD until the AUDIO output is maxized.(Fig. 5.4)

e. Repeat the Process of "**Adjustment of the wave form of DRUM Entrance/Exit"**

L. X-POSITION

Test Point	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ.FIXTURE
Measurement Equipment	OSILLOSCOPE	
Adjustment	VR CONTROL	PATH ADJ.FIXTURE
	S/T GHIDE ROLLER	TAPE TRANSMISSON SECTION

a. Connect the PT01 on the MAIN CIRCUIT BOARD with a PATH ADJ.FIXTURE.

b. Play back an ALIGNMENT TAPE(DN-2: MONO-SCOPE Signal).

c. Connect theS/W PULSE TEST PIN on the PATH ADJ.FIXTURE with a CHANNEL-1 SCOPE PROBE.

d. Connect the VIDEO OUT on the MAIN CIRCUIT BOARD with a CHANNEL-2 SCOPE PROBE(1V/div)

e. Check if the ENVELOPE is maximum when the VR CONTROL on the PATH ADJ. FIXTURE is in CEN-TER.

f. If the requirement "e" is not satisfied, readjust the X-POSITION by referring to subitem "E"(Adjustment of the X-POSITION).

g. Repeat the process of subite, "F(PLAYBACK PHASE ADJUSTMENT).

EXPLODED VIEW AND PARTS LIST

1. Exploded view of DECK Ass'y (Top View)

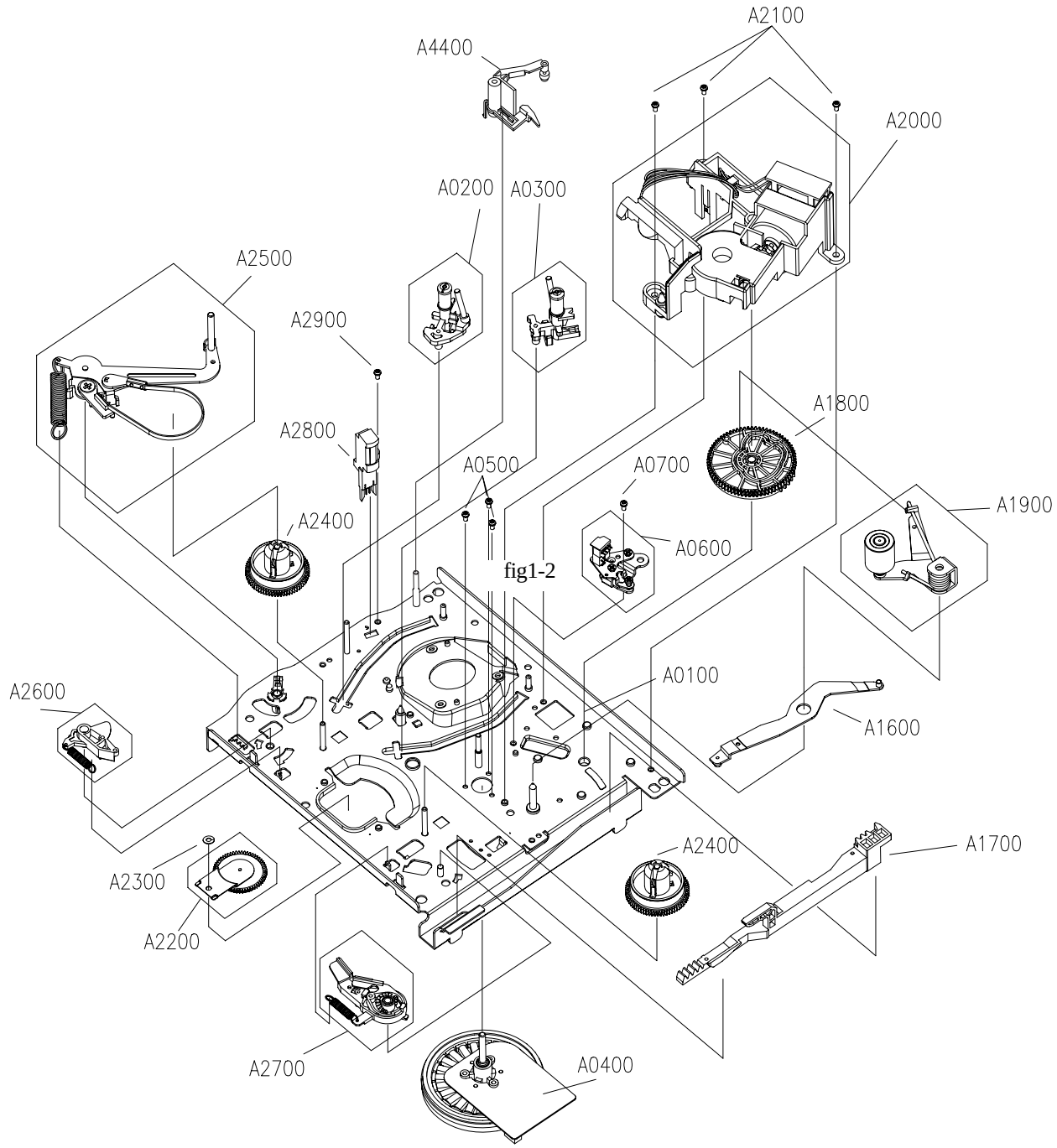


fig6-1

EXPLODED VIEW AND PARTS LIST (CONTINUED)

2. Exploded view of DECK Ass'y (Bottom View)

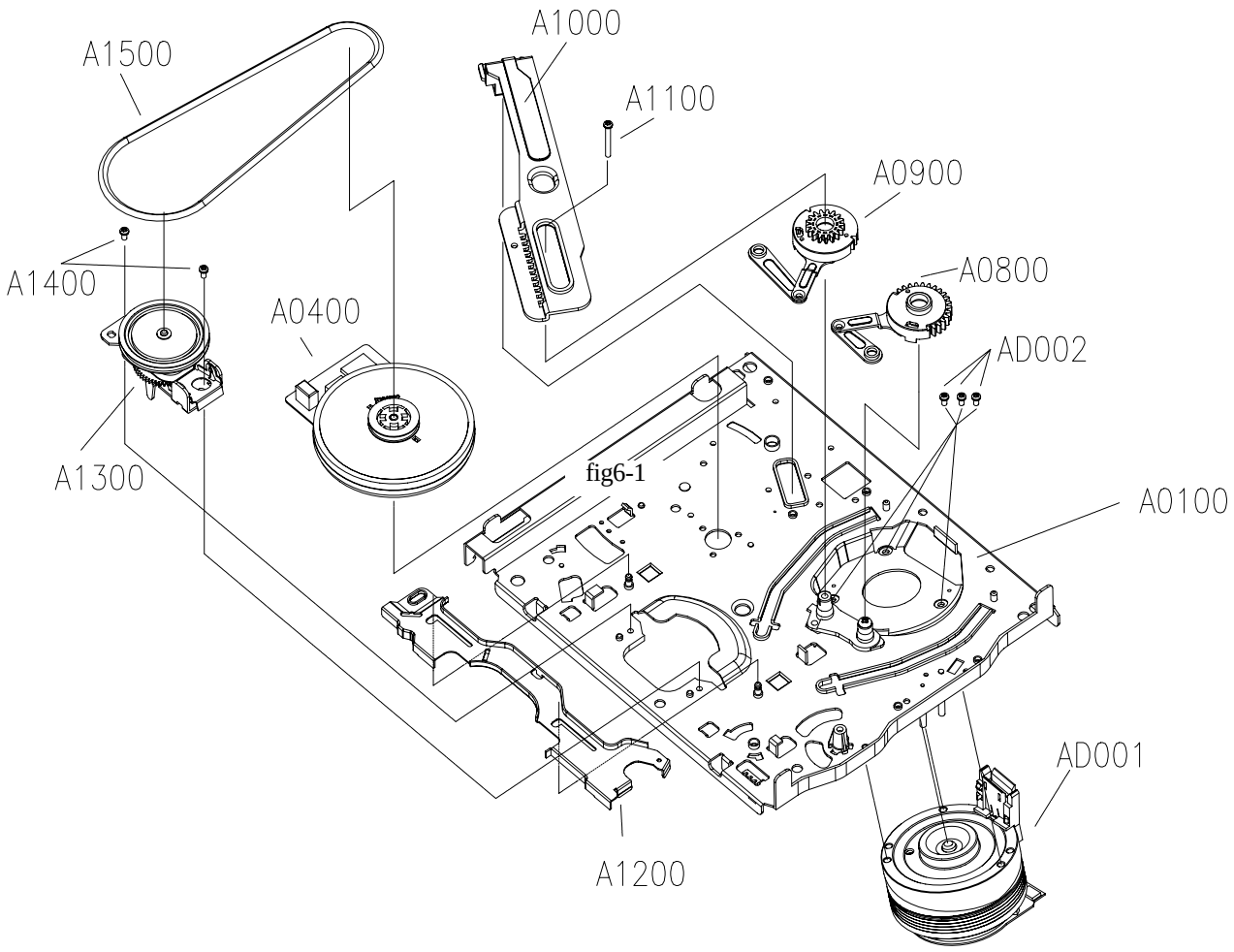


fig6-1

fig6-2

EXPLODED VIEW AND PARTS LIST (CONTINUED)

3. Exploded view of FL Ass'y

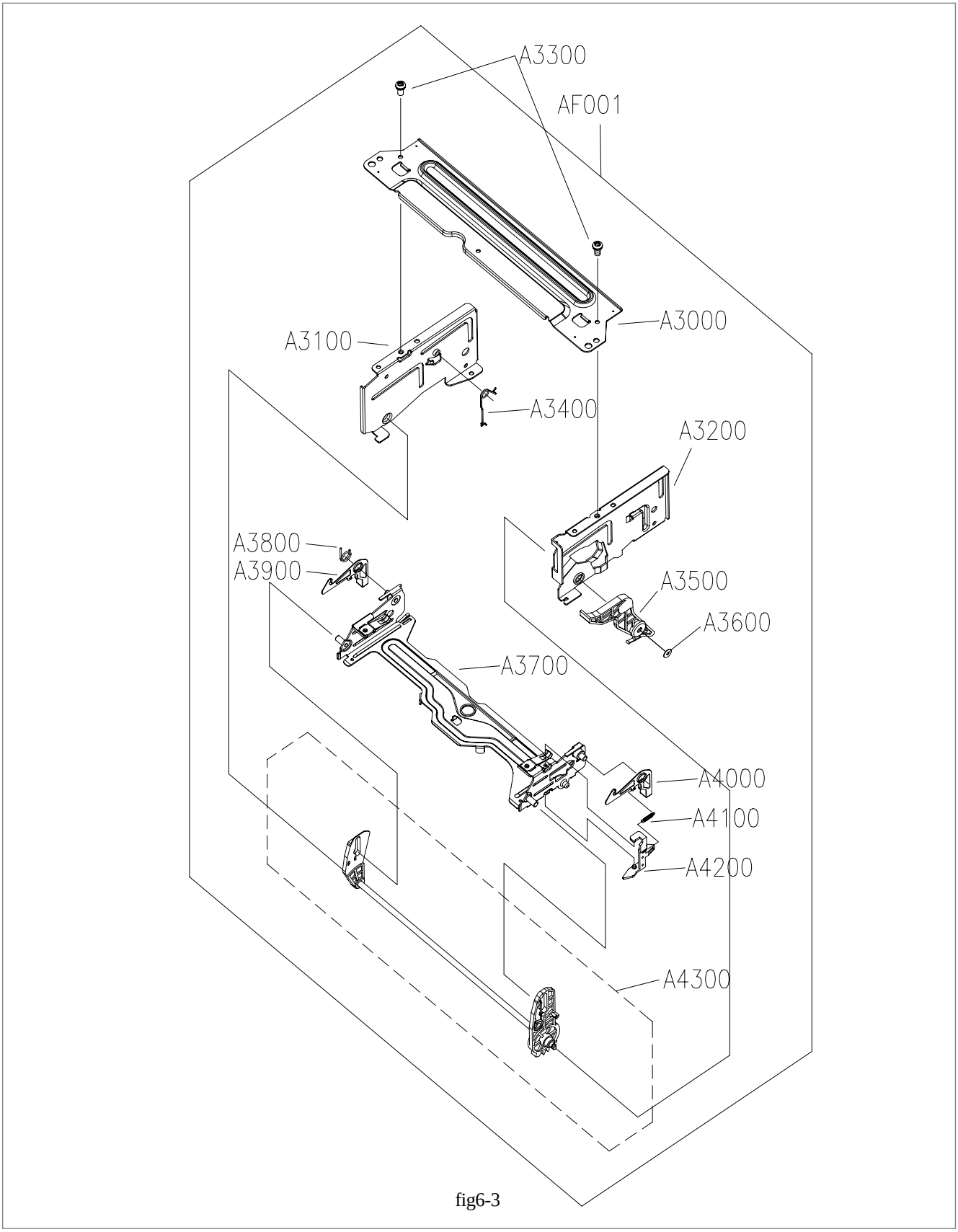


fig6-3

EXPLODED VIEW AND PARTS LIST (CONTINUED)

4. Exploded view Drum Total Ass'y

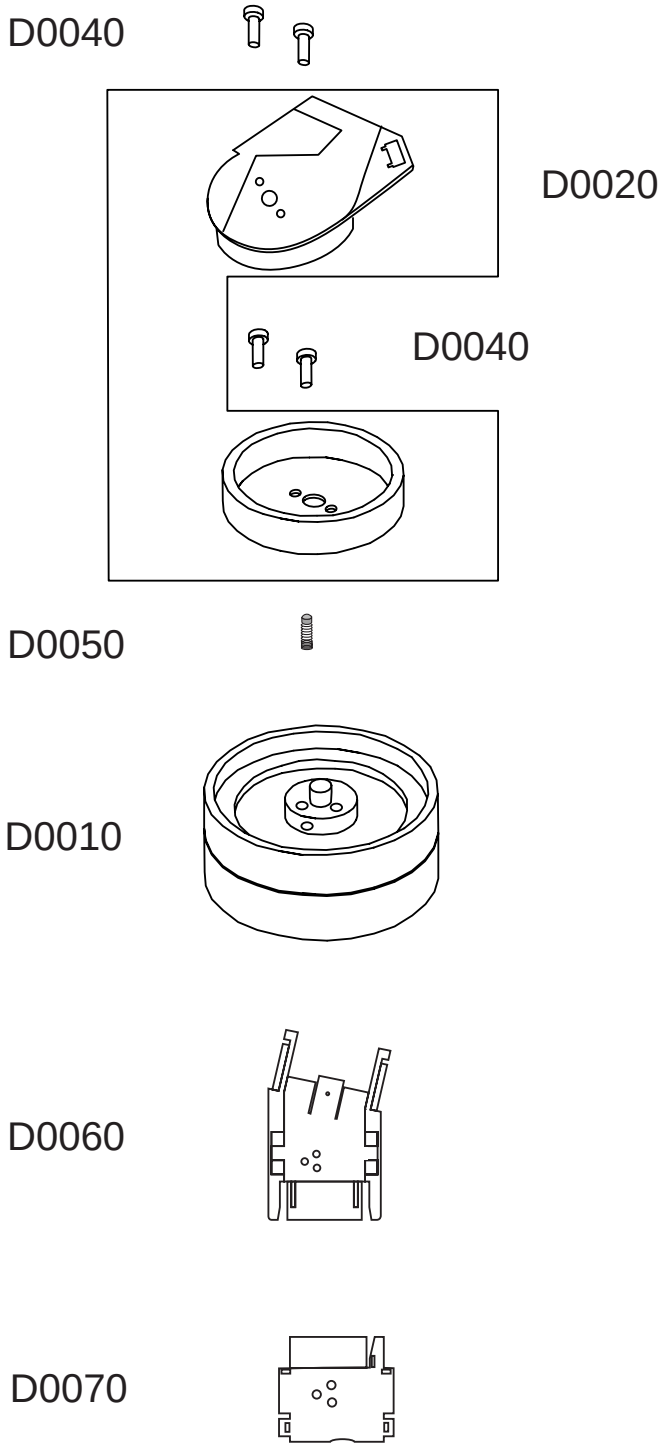


fig6-4

EXPLODED VIEW AND PARTS LIST (CONTINUED)

5. Parts List of Deck Total Ass'y (continud)

LOC	PART S/N	PART NAME	PART DISCRIPTION
NTSC			
M1OOO	97PCO273D-	DECK TOTAL AS	DRN-8329-CAR(2HD SP/EP HI-FI,DLC)
M1OOO	97PC0195D-	DECK TOTAL AS	DRN-8230(2HD SP/EP MONO,DLC)
M1OOO	97PC0194D-	DECK TOTAL AS	DRN-8430(4HD MONO, DLC)
M1OOO	97PC0128D-	DECK TOTAL AS	DRN-8630(4HD HI-FI, DLC)
M1OOO	97PC0301D-	DECK TOTAL AS	DRN-8200(2HD SP/EP MONO,NON)
M1OOO	97PC0328D-	DECK TOTAL AS	DRN-8201(2HD SP/EP MONO,NON,HEAD CLNER)
M1OOO	97PC0352D-	DECK TOTAL AS	DRN-8220(2HD SP/EP MONO,DLC)
M1OOO	97PC0300D-	DECK TOTAL AS	DRN-8400(4HD MONO, NON)
M1OOO	97PC0329D-	DECK TOTAL AS	DRN-8401(4HD MONO, NON,HEAD CLNER)
M1OOO	97PC0353D-	DECK TOTAL AS	DRN-8420(4HD MONO, DLC)
M1OOO	97PC0361D-	DECK TOTAL AS	DRN-8421(4HD MONO, DLC,HEAD CLNER)
M1OOO	97PC0299D-	DECK TOTAL AS	DRN-8600(4HD HI-FI,NON)
M1OOO	97PC0330D-	DECK TOTAL AS	DRN-8601(4HD HI-FI,NON, HEAD CLNER)
M1OOO	97PC0354D-	DECK TOTAL AS	DRN-8620(4HD HI-FI,DLC)
M1OOO	97PC0360D-	DECK TOTAL AS	DRN-8621(4HD HI-FI,DLC,HEAD CLNER)
M1OOO	97PC0365D-	DECK TOTAL AS	DRN-8230-H(2HD SP/EP, MONO,DLC)
M1OOO	97PC0364D-	DECK TOTAL AS	DRN-8430-H(4HD MONO,DLC)
M1OOO	97PC0359D-	DECK TOTAL AS	DRN-8630-H(4HD HI-FI,DLC)
PAL			
M1OOO	97PC0363D-	DECK TOTAL AS	DRP8421(4HD MONO,DLC,HEAD CLNER)
M1OOO	97PC0362D-	DECK TOTAL AS	DRP8621(4HD HI-FI,DLC,HEAD CLNER)
SECOM			

EXPLODED VIEW AND PARTS LIST (CONTINUED)

Parts List of Deck Total Ass'y (continud)

LOC	PART S/N	PART NAME	PART DISCRIPTION
DRUM AS			
D0010		DRUM AS	REFERRING TO LIST OF DRUM PRICE ASS'Y
D0030	97SA324400	DRUM M/T AS	E20XL-25
D0030	97SA327100	DRUM M/T AS	DMVDMTO4M
D0040	7001260711	SCREW MACHINE	PAN 2.6X7 MFZN
D0050	97SA320400	EARTH GROUND AS	T-DRUM
D0060	97S2303600	HOLDER MAIN	POM(KEPITAL F20)
D0070	97S2303700	HOLDER CAP(A)	POM(2CH)
D0070	97S2303800	HOLDER CAP(B)	POM(4CH)
D0070	97S2303900	HOLDER CAP(C)	POM(6CH)
AD002	7051300611	SCREW MACHINE	PAN 3X6 SW MFZN
DECK AS			
AM001		DECK AS	REFERRING TO LIST OF DECK TOTAL ASS'Y
A0100	97SA318100	MAIN BASE AS	T-MECHA
A0200	97SA316500	S SLANT POLE AS	T-MECHA
A0300	97SA316600	T SLANT POLE AS	T-MECHA
A0400	97S8101600	MOTOR CAPSTAN	DMVCMC07DR
A0400	97S8101600	MOTOR CAPSTAN	NEW SANVIC
A0500	97S3102000	SCREW TAPPTITE	TT2 BIN-P 2.6X7 MFZN
A0600	97SA320500	AC HEAD AS	HVMXB1000AK
A0600	97SA326800	AC HEAD AS	HVMXA1101A
A0700	7051300611	SCREW MACHINE	PAN 3X6 SW MFZN
A0800	97SA316800	L LOADING AS	T-MECHA
A0900	97SA316900	R LOADING AS	T-MECHA
A1000	97S2709500	RACK LOADING	SECC T1.2
A1100	7008301911	SCREW MACHINE	WAS M3*19 MFZN
A1200	97S0904300	PLATE CONNECT	SECC T0.8
A1300	97SA319400	REEL BRKT TOTAL AS	T-MECHA
A1400	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN
A1500	97S5500400	BELT REEL	CR68
A1600	97S2623200	LEVER RELAY	SECC T1.2

EXPLODED VIEW AND PARTS LIST (CONTINUED)

Parts List of Deck Total Ass'y

LOC	PART S/N	PART NAME	PART DISCRIPTION
DECK AS			
A1700	97S2709600	RACK FL	PBT(DY4410GF) NATURAL
A1800	97S2708200	GEAR CAM	DERLIN 100
A1900	97SA317100	PINCH LEVER TOT AS	T-MECHA
A2000	97SA318010	LC BRKT AS	T-MECHA
A2100	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN
A2200	97SA317300	IDLER PLATE TOT AS	T-MECHA
A2300	97S3108200	POLYWASHER	D2.6XD6.0XT0.5
A2400	97S2909400	TABLE REEL	POM(F20-03) BLACK
A2500	97SA317200	TENSION LVR TOT AS	T-MECHA
A2600	97SA317400	S BRAKE AS	T-MECHA
A2700	97SA317500	T BRAKE AS	T-MECHA
A2800	97S8015000	HEAD FE	HVFHU0030AK
A2800	97S8023100	HEAD FE	MH-131DT
A2900	7274300811	SCREW TAPPTITE	TT3 RND 3X8 MFZN
F/L AS			
AF001	97SA261010	F/LOADING AS	T-MECHA
AF002	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN
A3000	97S0903910	PLATE TOP	SECC T1.0
A3100	97S2401400	BRKT FL L	SECC T1.0
A3200	97S2401500	BRKT FL R	SECC T1.0
A3300	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN
A3400	97S3008800	SPRING FL LIFT	SWPB D0.8
A3500	97S2622700	LEVER DOOR OPENER	POM(F20-03) BLACK
A3600	97S3117300	WASHER POLY	D3.6XD8XT0.5
A3700	97SA415400	CST HOLDER SUB AS	T-MECHA
A3800	97S3008900	SPRING SAFETY LVR	SUS304 WPB D0.5
A3900	97S2621600	LEVER SAFETY L	SECC T1.0
A4000	97S2621700	LEVER SAFETY R	SECC T1.0
A4100	97S3009000	SPRING RELEASE LVR	SUS304 WPB D0.25
A4200	97S2621800	LEVER RELEASE	POM(F20-03) NATURAL
A4300	97SA317800	F/L LEVER AS	T-MECHA
AN002	2291131304	GREASE	DELUXE 5221G(NAM-YOUNG)
HEAD CLEANER AS			
A4400	97SA326900	HEAD CLEANER AS	T-MECHA

EXPLODED VIEW AND PARTS LIST (CONTINUED)

6. Parts List of Drum Price Ass'y

LOC	PART S/N	PART NAME	PART DISCRIPTION
NTSC			
AD001	97PA268901	DRUM PRICE AS	CYN-T210(2HD SP/EP NON)
AD001	97PA277471	DRUM PRICE AS	CYN-T212(2HD SP/EP DLC)
AD001	97PA264841	DRUM PRICE AS	CYN-T213(2HD SP/EP BLK)
AD001	97PA269001	DRUM PRICE AS	CYN-T410(4HD MONO NON)
AD001	97PA277571	DRUM PRICE AS	CYN-T412(4HD MONO DLC)
AD001	97PA264941	DRUM PRICE AS	CYN-T413(4HD MONO BLK)
AD001	97PA269101	DRUM PRICE AS	CYN-T610(4HD HI-FI NON)
AD001	97PA277671	DRUM PRICE AS	CYN-T612(4HD HI-FI DLC)
AD001	97PA265041	DRUM PRICE AS	CYN-T613(4HD HI-FI BLK)
AD001	97PA272071	DRUM PRICE AS	CYN-T312(4HD HI-FI NON)
PAL			
AD001	97PA265871	DRUM PRICE AS	CYP-KT112(2HD SP ONLY DLC)
AD001	97PA269901	DRUM PRICE AS	CYP-KT110(2HD SP ONLY NON)
AD001	97PA265971	DRUM PRICE AS	CYP-KT212(2HD SP/LP DLC)
AD001	97PA270001	DRUM PRICE AS	CYP-KT210(2HD SP/LP NON)
AD001	97PA266071	DRUM PRICE AS	CYP-KT412(4HD MONO DLC)
AD001	97PA270101	DRUM PRICE AS	CYP-KT410(4HD MONO NON)
AD001	97PA272771	DRUM PRICE AS	CYP-KT612(4HD HI-FI DLC)
AD001	97PA272601	DRUM PRICE AS	CYP-KT610(4HD HI-FI NON)
SECAM			
AD001	97PA266171	DRUM PRICE AS	CYS-KT412(4HD MONO DLC)
AD001	97PA270201	DRUM PRICE AS	CYS-KT410(4HD MONO NON)
AD001	97PA272971	DRUM PRICE AS	CYS-KT612(4HD HI-FI DLC)
AD001	97PA272801	DRUM PRICE AS	CYS-KT610(4HD HI-FI NON)

DAEWOO

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